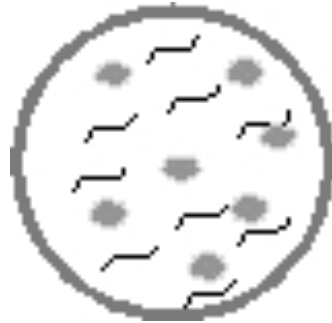


Non-routine Problems

1. Three people are sharing a pizza. Sara wants $\frac{1}{4}$ of it and Pat wants $\frac{1}{3}$ of it. What fraction of the pizza is left for Wan? Who gets the most pizza? Why?



2. Six toy cars can be parked in a row 16 inches long. How many toy cars can be parked in a row 64 inches long? 40 inches long? 104 inches?

3. One day the Lugnut Car factory produced 315 cars. The cars were silver, black or white. One-ninth of all the cars were silver. For every three black cars made, two were white. How many of each color did they produce?

4. A student had 85% of the questions correct on a test of 60 questions. How many questions were missed?

5. An artist has a set of white tiles forming a rectangle twelve tiles across and eight tiles high. She wants to insert down the middle a strip of red tiles that is two tiles wide and a strip of red tiles across the middle that is three tiles high. How many tiles will she need to put in? Show two different ways of finding how many.

6. An artist has a set of white tiles forming a rectangle m tiles across and n tiles high. She wants to insert down the middle a strip of red tiles that is two tiles wide and a strip of red tiles across the middle that is three tiles high. How many tiles will she need to put in?

7. Fatima asked 50 fifth grade students to name their favorite color. 30 picked red. She also asked 80 eighth grade students and 50 of them picked red. Which group liked red best? Explain your reasoning.

**8. You can buy 12 tickets for the park for \$15.00
or
20 tickets for \$23.00. Which is a better buy?**

9. Paul's swimming pool is in the shape of a rectangle, 19 feet long and 13 feet wide. There is a 2 foot wide walkway around the pool. A fence is build around the walkway. What is the length of fence needed?

10. Chan's photo lab has some stools with 3 legs and some chairs with 4 legs. There are more chairs than stools. If there is a total of 26 legs on the stools and chairs, how many stools are in Chan's lab?

11. Kelly completed a survey of 100 students for the school newspaper. 71 said they liked rock music, 52 said they liked country music and 30 said they liked both. How many students did not say they liked either?

12. The dimensions of a Greek Temple are 48 meters by 32 meters. It is in the shape of a rectangle. Eight meters from the walls, is a row of pillars. If the pillars are eight meters apart how many are there?

13. We needed 138 balloons to decorate the gym for a class party. We had five bags of balloons. They all held the same number of balloons. We found we needed 18 more balloons to finish the job. How many balloons were in each bag?

14. Blocks measure $1\frac{1}{2}$ inches on each edge. A cube one foot high, one foot wide, and one foot deep is made with these cubes. How many little blocks are in large cube of blocks?

15. At Pizza Hut, 14 girls equally shared 6 large pizzas and 6 boys equally shared 2 large pizzas. Who gets to eat more pizza, a girl or a boy?

16. Antwon and Erik are collecting baseball cards. Together they have 62 cards. Antwon has 8 more cards than Erik.

a. How many cards does each have?

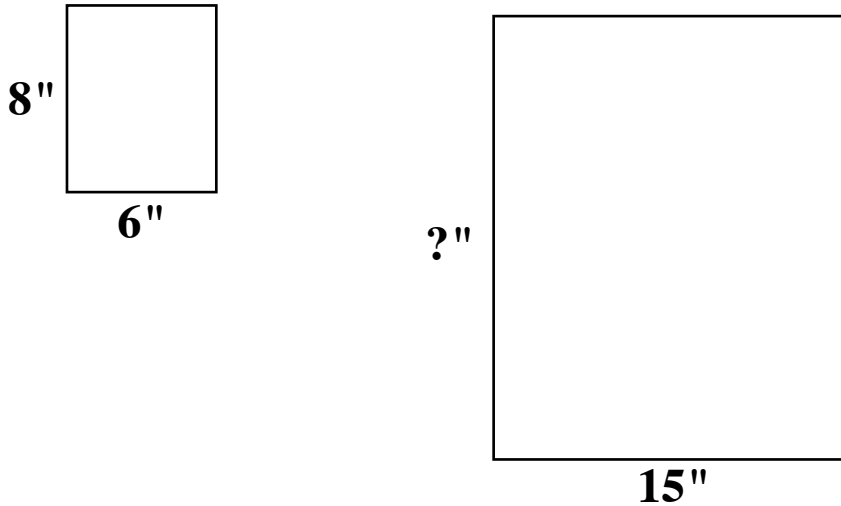
b. A month later they have 86 cards and Antwon has 12 more cards than Erik. How many does each have now?

c. Suppose they had 11, 238 cards and Antwon had 341 more cards than Erik?

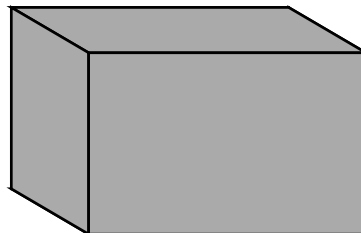
17. A rectangular box holds 36 cubes. When she opened the box, Marcia could see 12 on the top. If she could open it at an end, how many cubes would she see?

18. A rectangular box holds 48 cubes. When you open the top, how many might you see? For each possibility, list how many you would see from an end.

19. A 6 inch by 8 inch photograph is to be enlarged so that the base which was 6 is now 15 inches. How high will the enlarged photograph be?



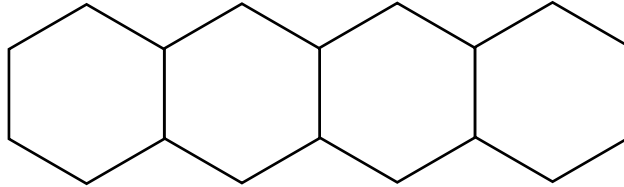
20. The area of the floor of a rectangular room is 315 sq. ft. The area of one wall is 120 sq. ft. and the area of another is 168 sq. ft. The floor and ceiling are parallel. What is the volume of the room?



21. Paula's swimming pool is in the shape of a rectangle, 32 feet long and 23 feet wide. There is a 3 feet wide walkway around the pool. A fence is build around the walkway. What is the length of fence needed?

22. Eleven pencils cost as much as three pens. If seven pens costs \$9.24, what is the cost of one pencil? Write your answer in cents.

23. Some hexagons are put together in a row as shown below. Each side of a hexagon is 7 cm long. If the row has 43 hexagons, what is the distance around the row? 2,349 hexagons? n hexagons?



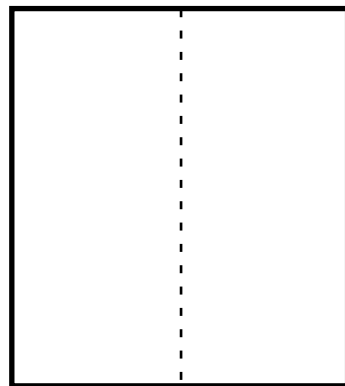
24. A museum is holding a contest to see exactly how many different ways four identical baseball cards can be put together on the wall as a unit (same side up). The rules also state that the cards

- a. must lie flat,**
- b. not overlap,**
- c. all four cards must have top edge up, and**
- d. each card must have an edge in common with another card.**

In how many different ways can this be done?

25. Tashana has 16 coins that total to \$1.85. She has only nickels, dimes and quarters. How many of each coin could she have?

26. A square piece of paper is folded in half to form a rectangle with a perimeter of 12 cm. What is the area of the original square?



27. A 12 ounce can of soda cost 42 cents. How much would a 16 ounce can cost at the same cost per ounce?

28. A 12 ounce can of soda cost 27 cents. How much would a 20 ounce can cost at the same cost per ounce?

29. Twenty-eight slices of pizza cost \$12. How much would 70 slices cost?

30. The sales manager for Chicken Shack Restaurants is studying the sales figures of two new varieties of chicken sandwiches recently introduced at eight of its restaurants. For four weeks, the three restaurants have been selling lemon-roasted-chicken sandwiches, and for three weeks, the other five restaurants have been selling barbecued-chicken sandwiches. During this testing period, 6000 l-r-c sandwiches were sold, and 7200 b-c sandwiches were sold. Which of the two new chicken sandwiches should the sales manager report as having the better sales?

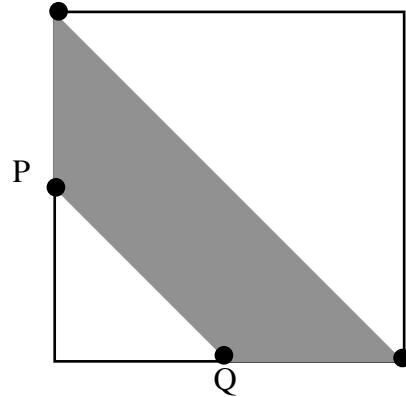
31. Mr. Barnes built a fence around his square chicken yard. He used 24 post and placed them 10 feet apart. What is the area of the space enclosed?

32. I am thinking of two numbers. When they are added the result is 56. When they are subtracted the result is 14. What is the result when the two numbers are multiplied?

33. How much would 1.37 pounds of cheese cost at \$2.85 per pound?

34. A floor, 9 feet by 12 feet, is to be tiled with 4 inch by 6 inch tiles. How many tiles are needed to cover the floor?

**35. What fraction of the square shown below is shaded?
Points P and Q are midway along their sides.**

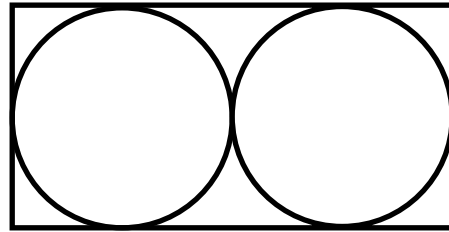


36. There are 27 rows of coins with the same number of coins in each row. Forty-eight coins fill 8 rows. How many coins are there in all?

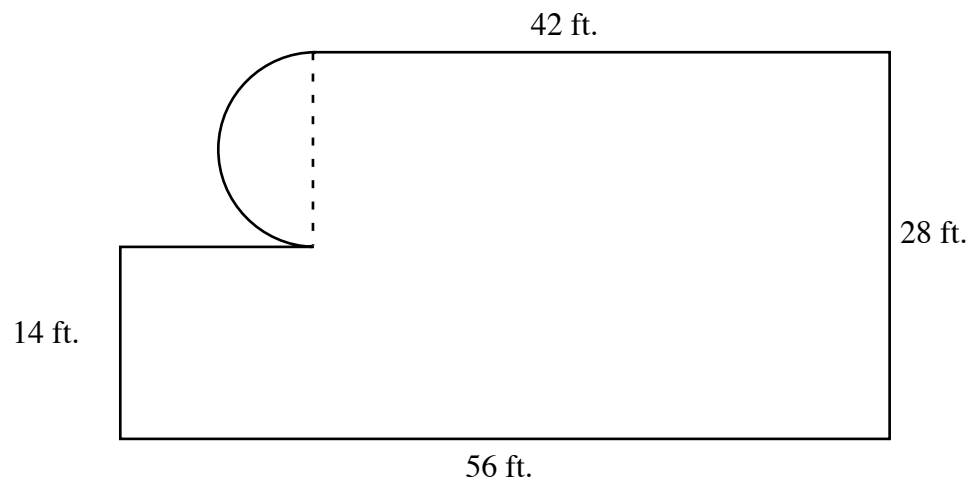
37. A pizza in the shape of a rectangle is to serve 18 people. Everyone is to get the same amount of pizza. If the pizza is 30 inches by 12 inches, describe the piece each person will get.

38, One day while I was at school, the electricity went out at home. When I left for school that morning, all the clocks were working and agreed that the time was 6:30. When I got home they all showed different times. The wind-up clock, which was unaffected by the outage, read 5:21. The analog electric clock stops running when you unplug it from the wall and it starts up where it left off when you plug it back in. That clock showed 3:50. My digital electric clock, which resets itself to midnight electricity goes out and starts when the electricity comes back on, flashes until you correct the time. It was flashing 6:03 am. Assuming the electricity went out just once, what time did it go out and how long was it off?

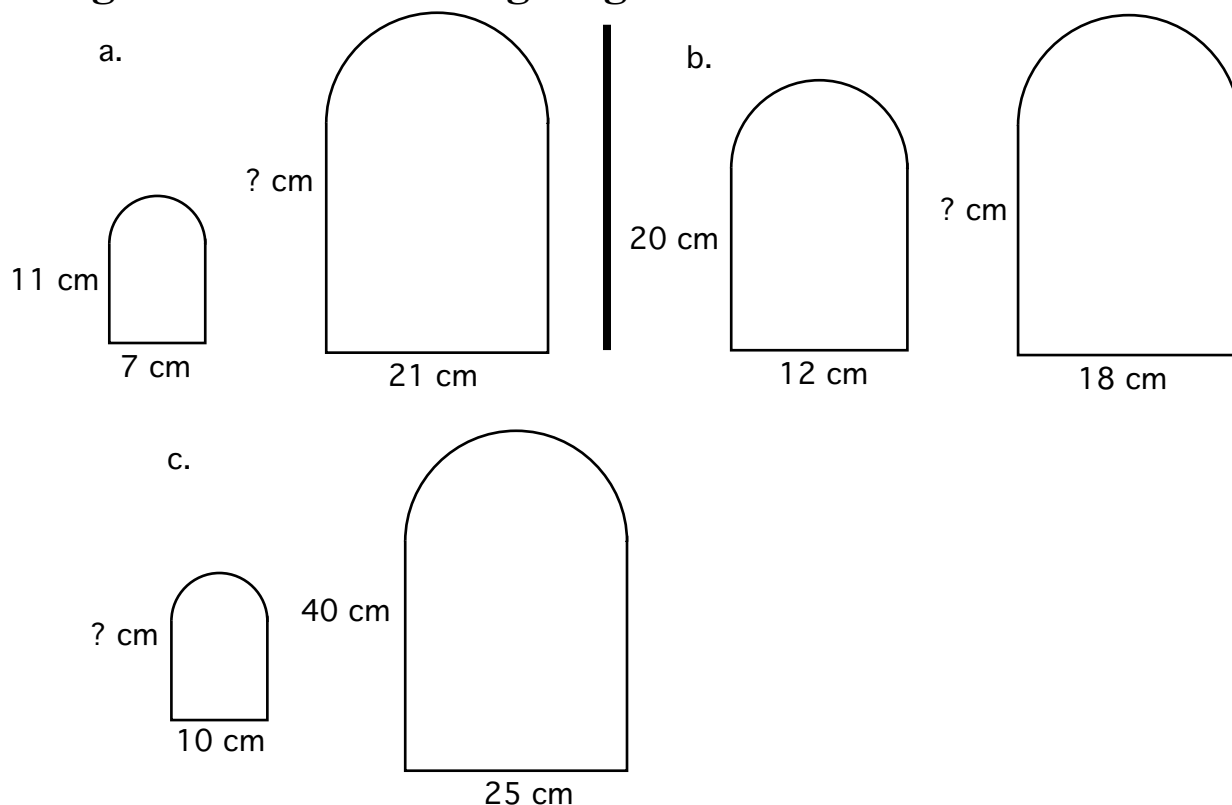
39. Two circles just touch a rectangle and each other as shown in the figure below. The area of the rectangle is 18 square cm. What is the radius of each circle?



40. Angela is deciding how many plants to buy for her garden. The diagram below represents Angela's garden. The curved area is a semi-circle. Find the area of her garden in square feet.



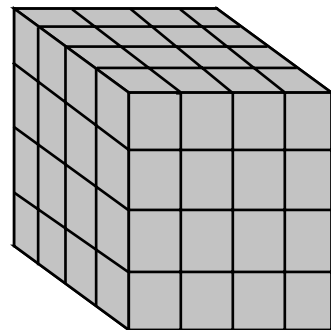
41. The figures below are similar, that is, one has just been made larger. Find the missing lengths.



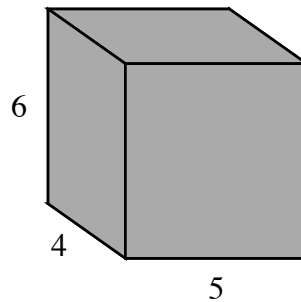
42. The arithmetic mean of ten scores is 91. When the lowest score is dropped the mean of the remaining nine scores becomes 94. What is the lowest grade?

43. Venessa is playing a game where low score wins. After playing a number of games, she scores a 139 which lowers her score from 157 to 156. What must she score on the next round to lower her score to 155?

44. A block made of small cubes is dipped in paint. The block has four cubes on each edge as shown below. How many small cubes have paint on them?

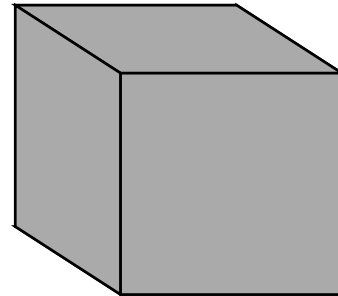


45. Marta made a stack of cubes 5 cubes across the front, 4 cubes deep and 6 cubes high. The top and the four sides of the stack are painted red. How many cubes have paint on them? How many cubes do not have paint on them?

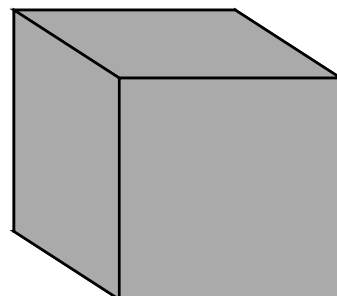


46. One year Maria and Sonia send greeting cards. Altogether they send 56 cards. Maria sends 14 more cards than Sonia. How many cards does each girl send? Explain your reasoning.

47. A large cube made of 125 one centimeter cubes is placed on the floor and paint is poured down over the top and all sides. How many one centimeter cubes have paint on them?



48. Centimeter cubes are glued together to make a larger cube (solid) that is several centimeters on each edge. Some faces of this cube are painted. When the cube is taken apart, exactly 45 centimeter cubes have no paint on them. How many centimeter cubes were used to make the larger cube?



49. The sum of five different positive whole numbers is 65. The median of the three numbers is 16. What is the largest any of the five numbers could be?

50. Sophie was raising Alaskan white mice. They were unusual in that every two months the female had exactly two babies - a male and a female. When these babies were two months old, they had their first babies and continued to have them every two months after that. Sophie began with one pair of mice on January 1, 2001 and her parents made her sell all that she had on January 2, 2002, just after more babies were born. Since none of the mice had died, she had quite a few. How many?

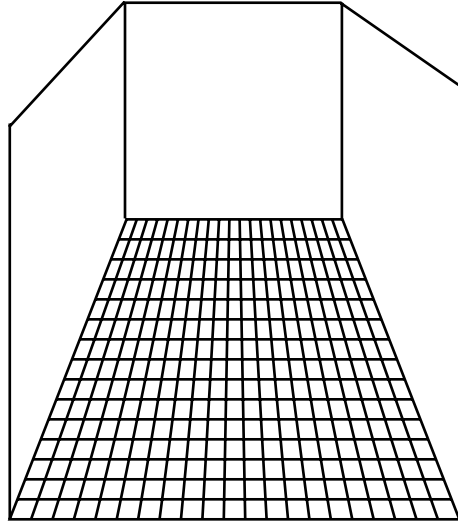
51. A long table for a party is made by putting square tables together that seat one person on a side. There are two rows of small tables used. This table seats 38 persons. How many small tables were used?

52. Wanda Fish is planning a rectangular swimming pool and plans to use square tiles to cover the bottom. She will use white tiles to form a rectangle in the middle and then make a uniform border of blue tiles. After the tiles have been delivered, she decides to put the blue tiles in the middle and use the white tiles for the border. As it so happens, the number of tiles was such that this was possible but the rectangle did not necessarily have the same dimensions. What is the smallest number of tiles that could have been delivered?

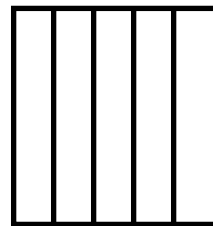
53. Four women must cross a bridge over a deep ravine in enemy territory in the middle of the night. The treacherous bridge will hold only two women at a time and it is necessary to carry a lantern while crossing. (persons must stay together while going across). One of the women requires 5 minutes to cross, one takes 10 minutes, a third requires 20 minutes and the slowest requires 25 minutes (each of them can walk slower if necessary but no faster). Unfortunately, they have only one lantern among them. How can they make the crossing if they have only 60 minutes before the bridge is destroyed? No tricks!

54. Main Bank was robbed this morning. A lone robber carried the loot away in a big leather bag. The manager of the bank said most of the stolen bills were ones, fives, and tens. Early reports said the robber took approximately \$1 million in bills. The Channel 1 News team thinks this sounds like more money than one person could carry. What do you think? Channel 1 News needs help in determining how hard it would be for one person to carry \$1 million in small bills. Please investigate this question to determine if this is possible. Prepare a report for Channel 1 News describing and explaining your findings. Your report should help the investigative reporter at Channel 1 better understand the situation to plan for tonight's broadcast.

55. A square hall is covered with square tiles. When the number of tiles on two diagonals are counted, the number of tiles is 125. How many tiles are there on the floor?



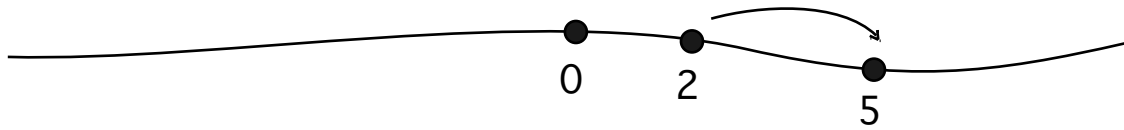
56. The square to the right is divided into five congruent rectangles. If the perimeter of one of the rectangles is 30 cm, what is the area of the square?



Adding and Subtracting Integers # 1

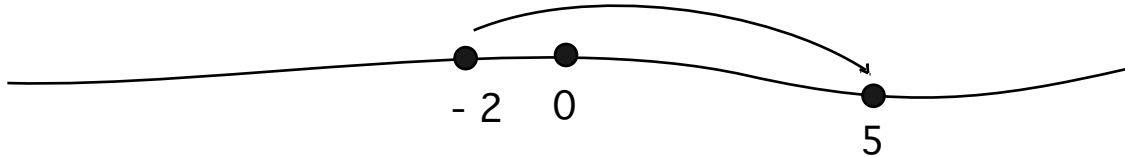
1. $5 - 2 = n \rightarrow 2 + n = 5$ $n = \underline{\hspace{1cm}}$

What added to 2 gives 5?

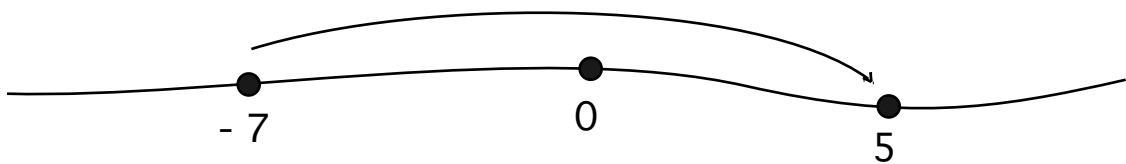


2. $5 - (-2) = n \rightarrow -2 + n = 5$ $n = \underline{\hspace{1cm}}$

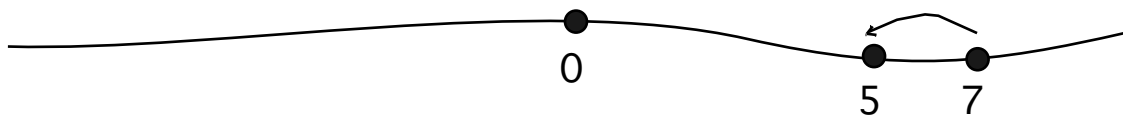
What added to -2 gives 5?



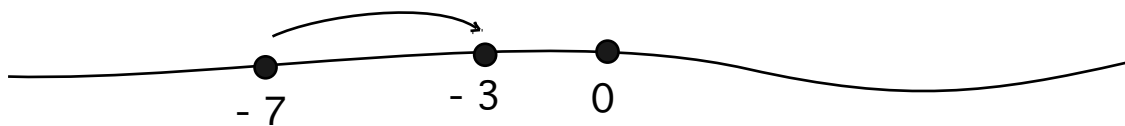
3. $5 - (-7) = n \rightarrow -7 + n = 5$ $n = \underline{\hspace{1cm}}$



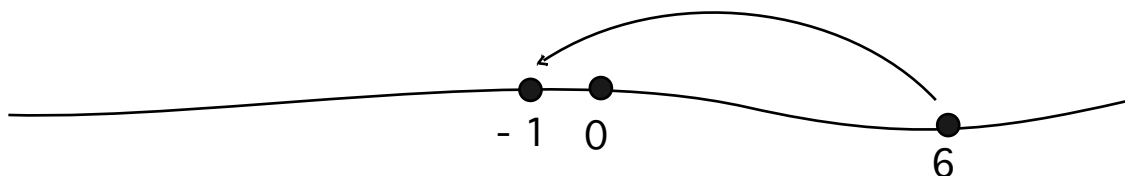
4. $5 - 7 = n \rightarrow 7 + n = 5$ $n = \underline{\hspace{1cm}}$



5. $-3 - (-7) = n \rightarrow -7 + n = -3$ $n = \underline{\hspace{1cm}}$



6. $-1 - (6) = n \rightarrow 6 + n = -1$ $n = \underline{\hspace{1cm}}$



Adding and Subtracting Integers # 2

1. $43 + (-9) = n \longrightarrow 43 - 9 = n$ $n = \underline{\hspace{2cm}}$

2. $53 - 72 = n \longrightarrow 72 + n = 53$ $n = \underline{\hspace{2cm}}$
 What added to 72 gives 53?

3. $53 - (-27) = n \longrightarrow -27 + n = 53$ $n = \underline{\hspace{2cm}}$

4. $-100 + 38 = n$ $n = \underline{\hspace{2cm}}$

5. $-57 - (-85) = n \longrightarrow -85 + n = -57$ $n = \underline{\hspace{2cm}}$

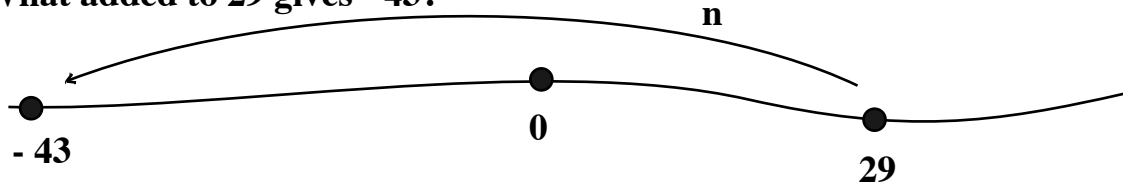
6. $-21 - (19) = n \longrightarrow 19 + n = -21$ $n = \underline{\hspace{2cm}}$

Adding and Subtracting integers # 3

1. $-43 - 29 = n \longrightarrow 29 + n = -43$

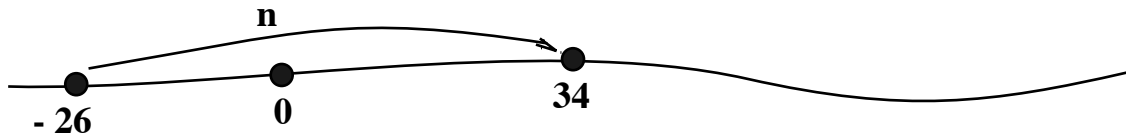
$n = \underline{\hspace{2cm}}$

What added to 29 gives -43?



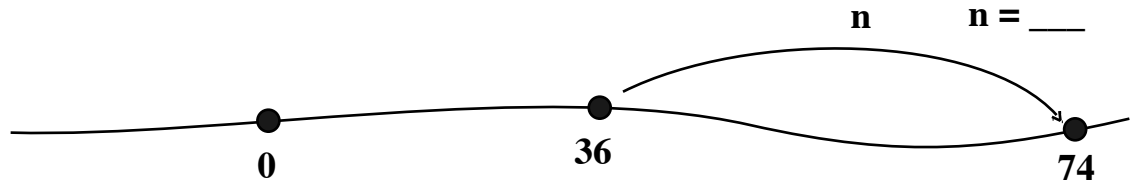
2. $34 - (-26) = n \longrightarrow -26 + n = 34$

$n = \underline{\hspace{2cm}}$



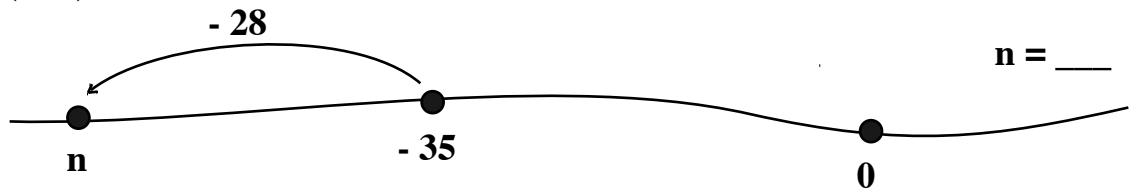
3. $74 - 36 = n \longrightarrow 36 + n = 74$

$n = \underline{\hspace{2cm}}$



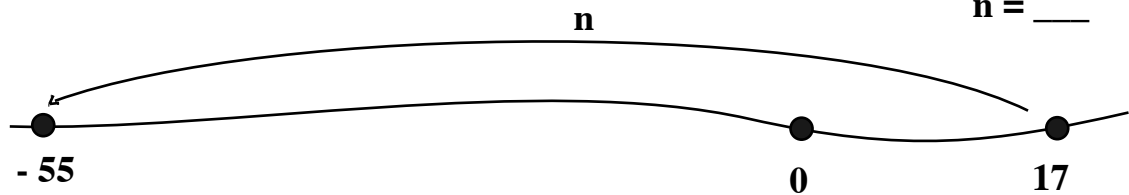
4. $-28 + (-35) = n$

$n = \underline{\hspace{2cm}}$



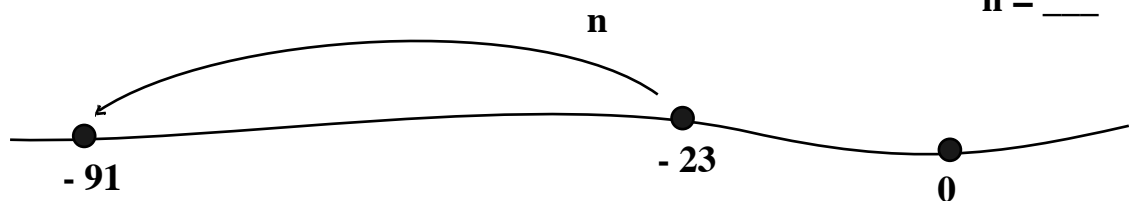
5. $-55 - 17 = n$

$n = \underline{\hspace{2cm}}$



6. $-91 - (-23) = n \longrightarrow -23 + n = -91$

$n = \underline{\hspace{2cm}}$



Integer Math Squares # 1

1.

	3
7	8

14

2.

16	
10	9

30

3.

6	5
	9

0

4.

	4
7	6

7

5.

-2	-2
-2	-2

6.

-3	-3
-3	

1

7.

	-4
-5	-6

-14

8.

-5	
-6	-3

-8

9.

3	-9
	6

0

Integer Math Squares # 2

1.

3	4
-1	-5

2.

-3	-4
-2	8

3.

-4	-3
-7	-6

4.

-7	4
	-4

-8

5.

3	9
	-8

-2

6.

-2	-4
-6	

-9

7.

	-4
2	8

-6

8.

-7	
7	8

0

9.

-2	-3
	-4

-1

Integer Math Squares # 3

1.

-6	-5
-3	-4

2.

3	-5
	-6

7

3.

-5	-4
	-6

-18

4.

-7	-3
2	-8

5.

-7	8
2	-3

6.

	-5
6	-2

4

7.

-8	16
-16	-3

8.

8	
-9	-5

10

9.

12	-7
3	-15

Integer Math Squares # 4

1.

-8	-8
-8	-8

2.

9	-1
-3	

5

3.

4	-2
-5	-3

4.

-6	-6
-6	

-60

5.

-8	5
1	2

6.

	-8
12	2

9

7.

-3	7
	-8

-11

8.

7	
1	-9

-6

9.

-5	
3	2

-9

Integer Math Squares # 5

1.

-5	-2
-3	

7

2.

-8	-6
18	-2

3.

-9	
-7	14

8

4.

	10
-3	9

4

5.

-3	-9
-27	-31

6.

-36	17
	-3

-39

7.

-51	-49
	74

0

8.

-3	-7
-8	

-16

9.

	-4
-2	-6

-15

Integer Math Squares # 6

1.

-5	-4
-14	-11

2.

	23
-4	-13

10

3.

6	3
1	-12

4.

-24	-36
12	18

5.

-21	-21
-21	-21

6.

	-14
4	-19

-35

7.

	6
7	5

-2

8.

-5	
8	-4

3

9.

-4	-5
	9

-1

Integer Math Squares # 7

1.

14	-6
-4	-5

2.

	12
-4	

-10

3.

	22
13	-37

-3

4.

-60	-17
	-3

20

5.

-37	-37
-37	-37

6.

	-2
56	-98

0

7.

	-27
-29	-43

1

8.

-8	
-8	-8

4

9.

-17	
40	-13

-25

Integer Math Squares # 8

1.

-2	-3
-20	

-15

2.

	-8
-6	-11

15

3.

-6	-4
-2	

-9

4.

-22	-39
2	9

5.

-9	-9
-9	-9

6.

	-14
15	-26

-26

7.

	-4
-7	

-12

8.

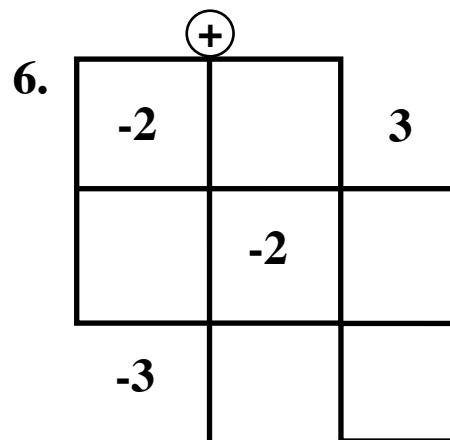
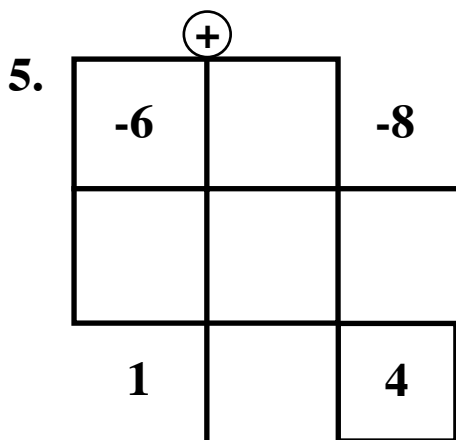
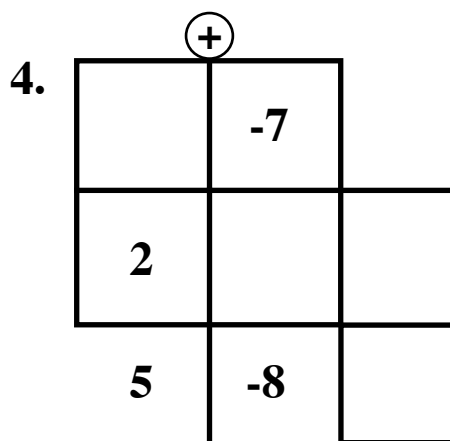
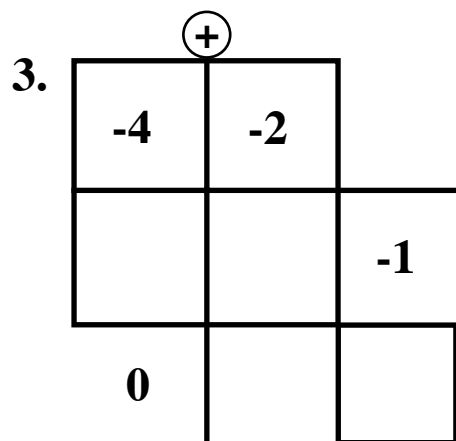
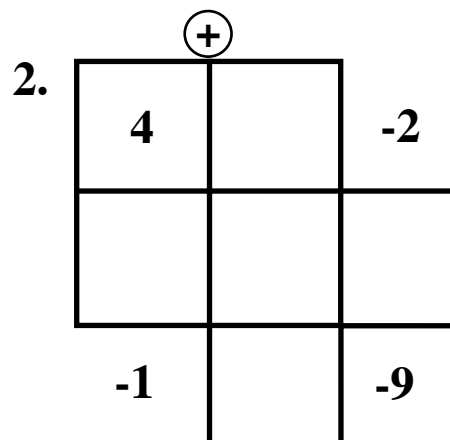
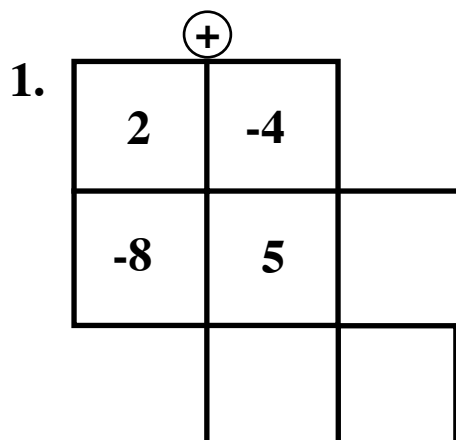
-72	
9	3

-50

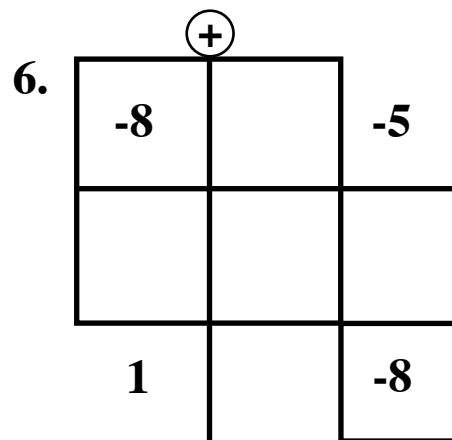
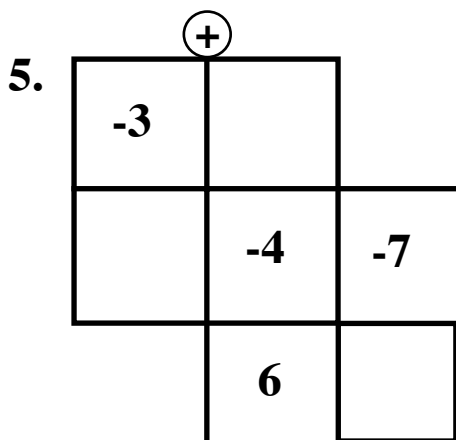
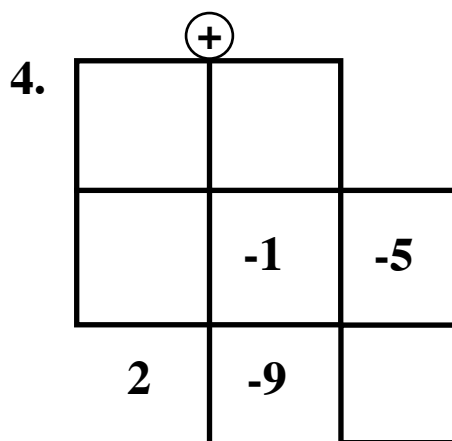
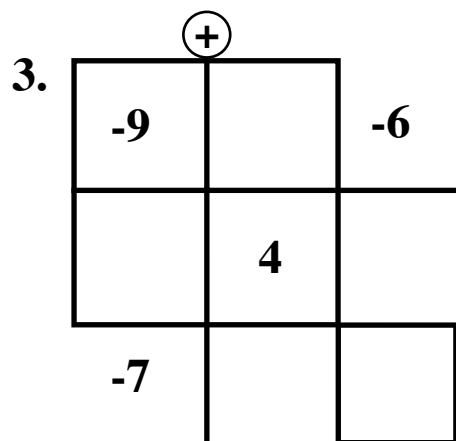
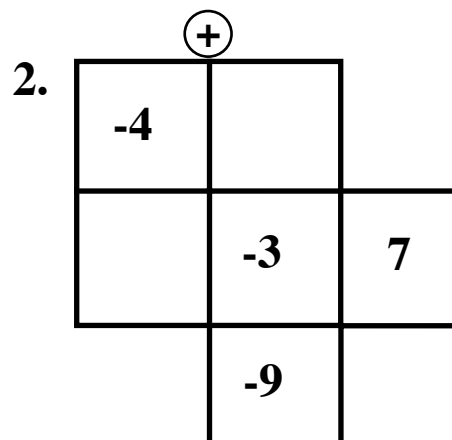
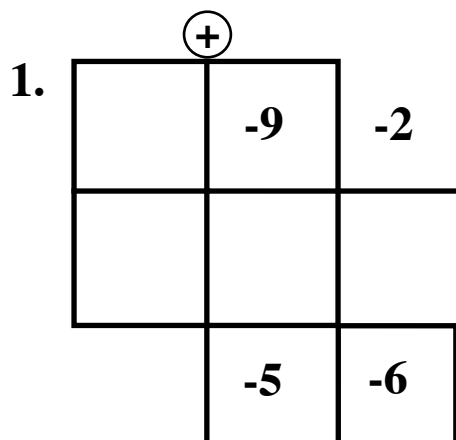
9.

-4	-5
-8	17

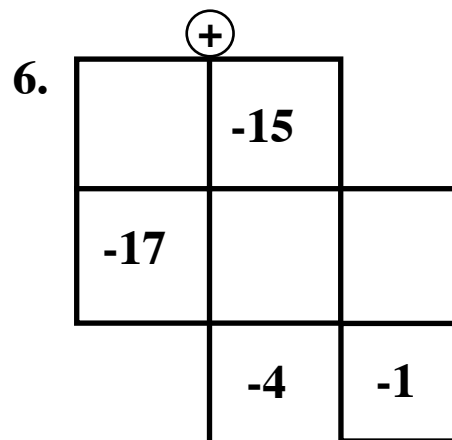
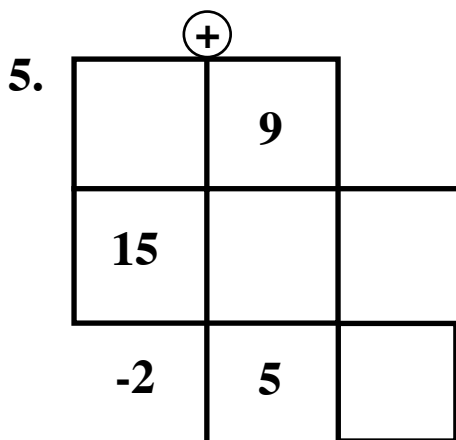
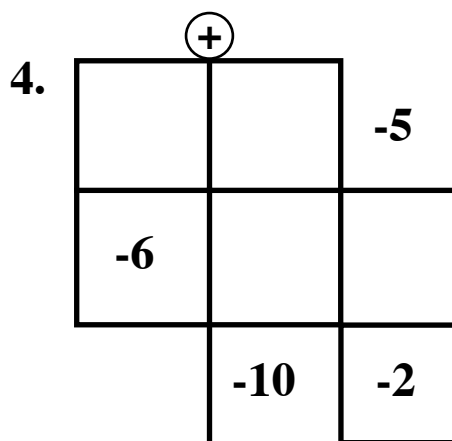
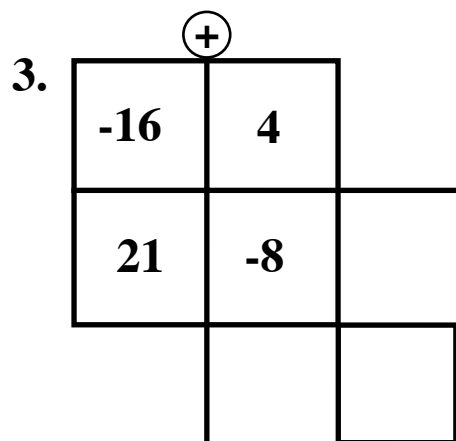
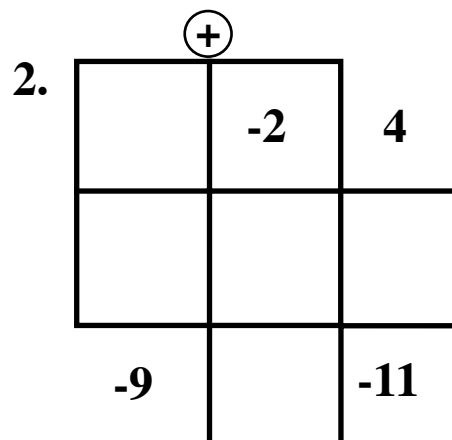
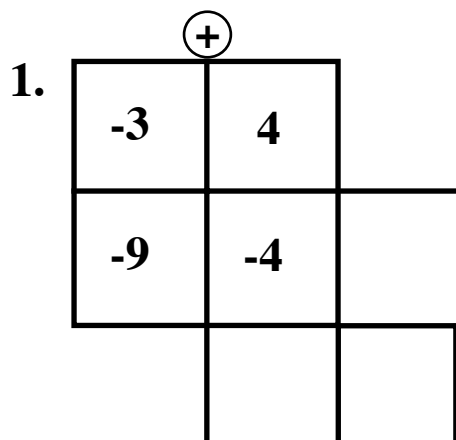
Integer Two Ways # 1



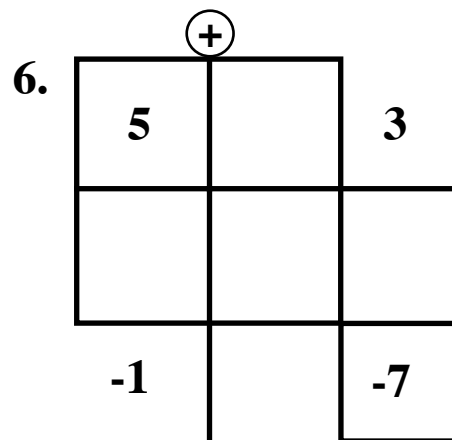
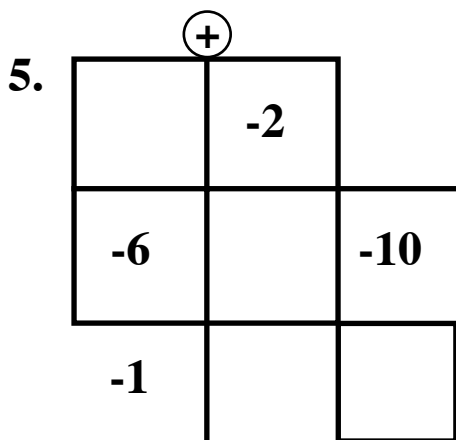
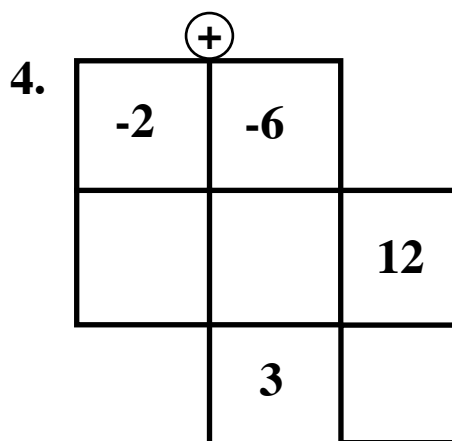
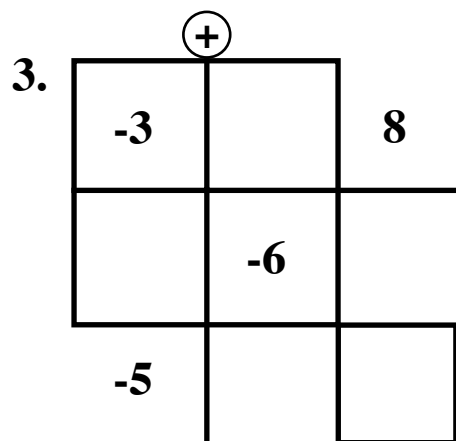
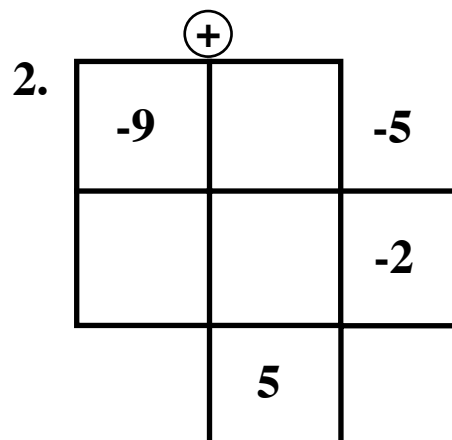
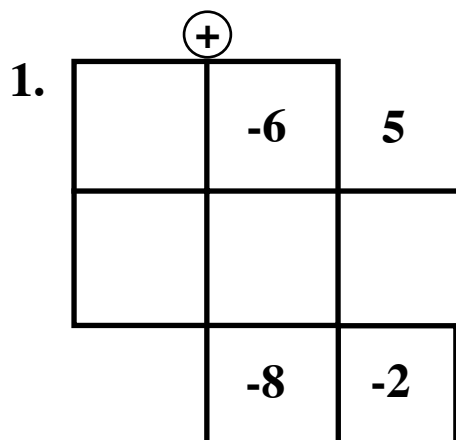
Integer Two Ways # 2



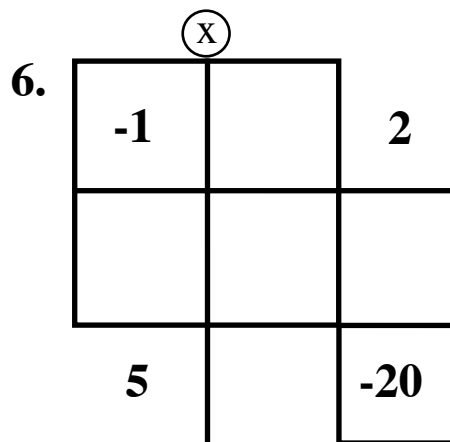
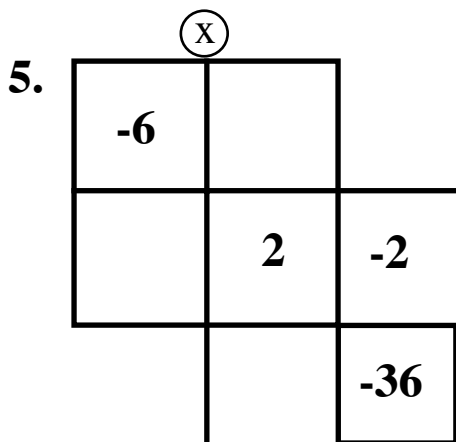
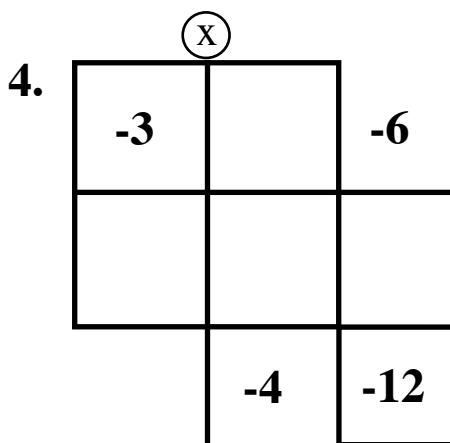
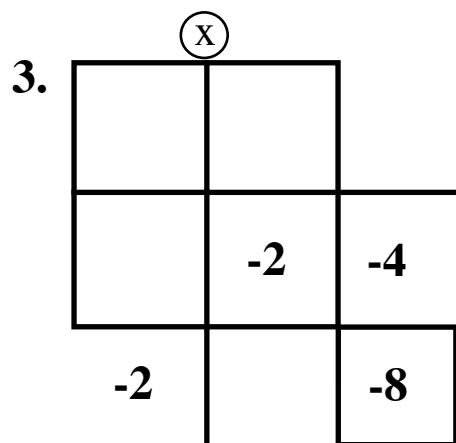
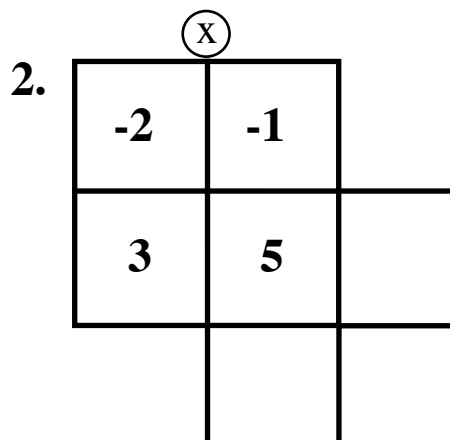
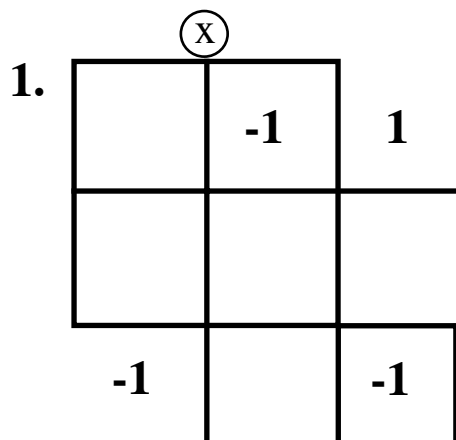
Integer Two Ways # 3



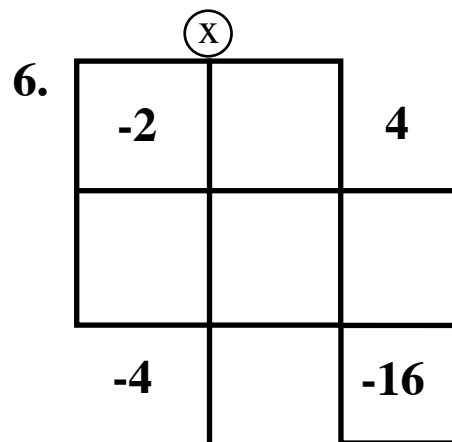
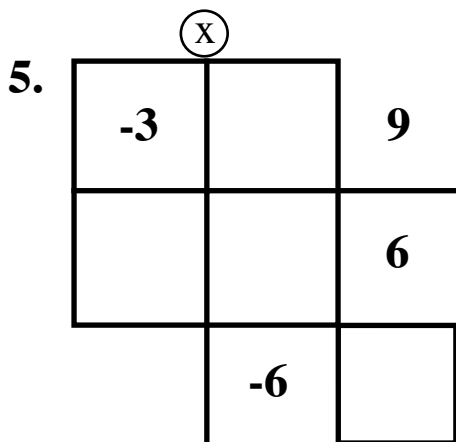
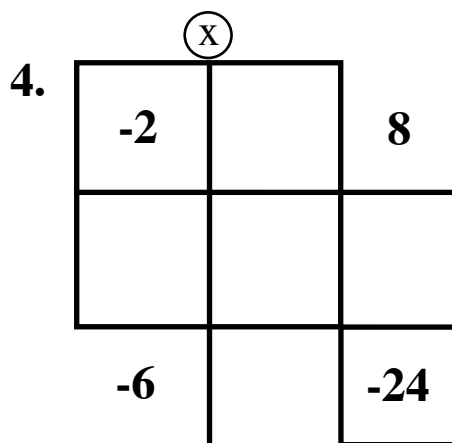
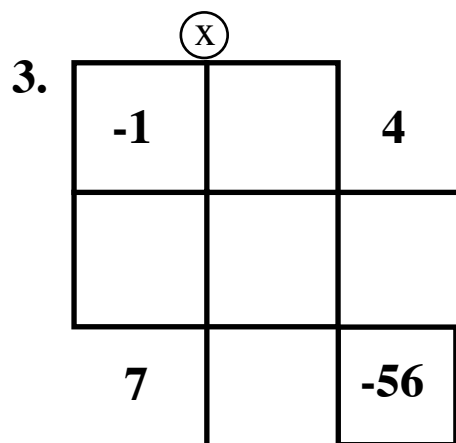
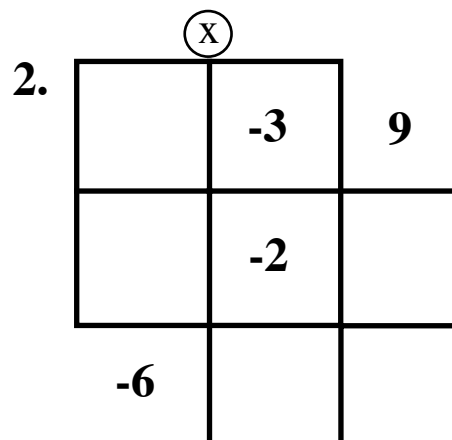
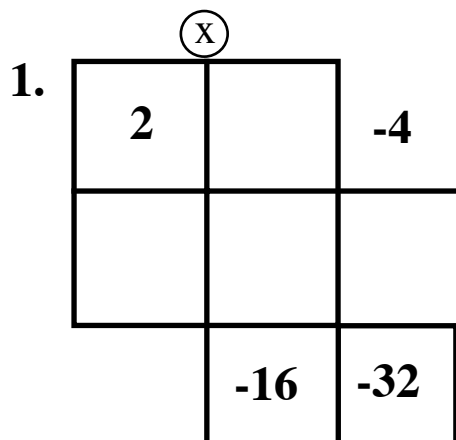
Integer Two Ways # 4



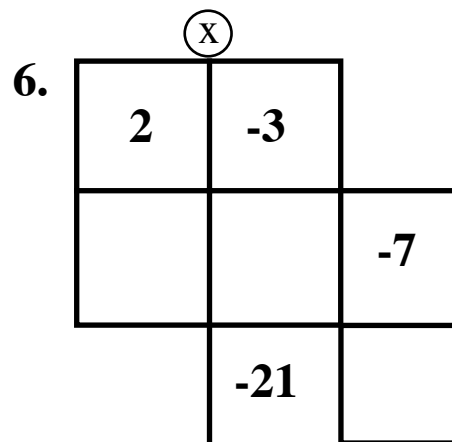
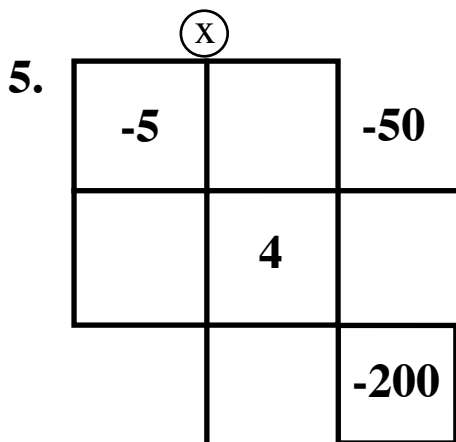
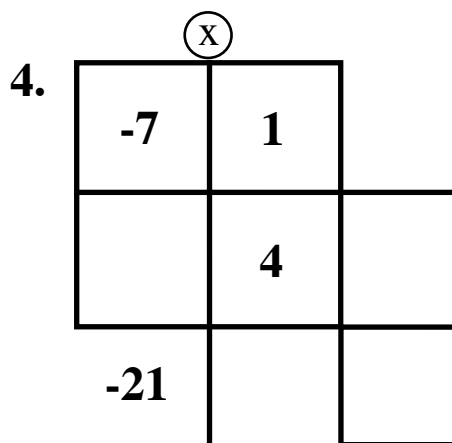
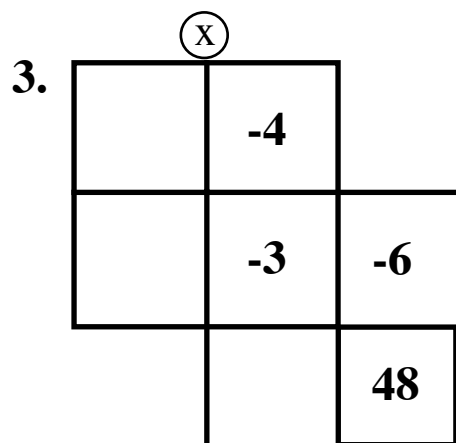
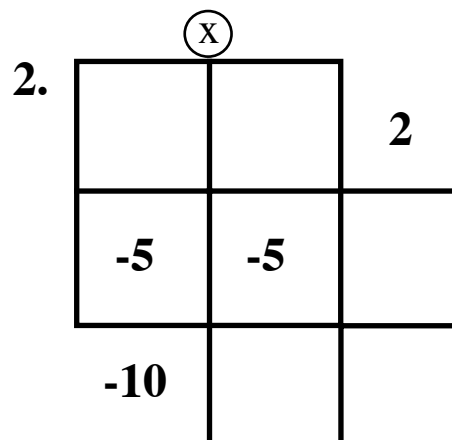
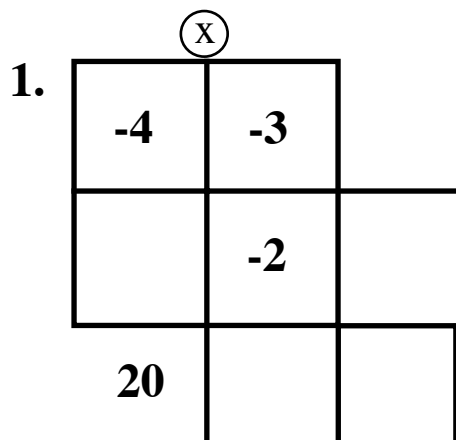
Integer Two Ways # 5



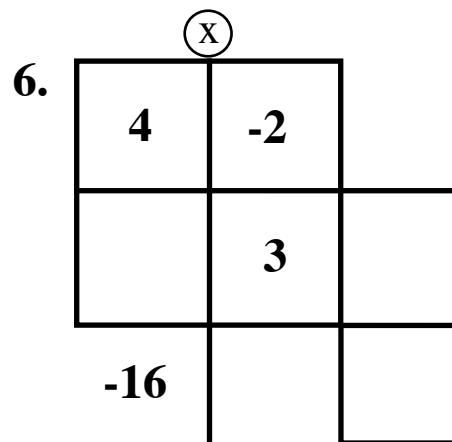
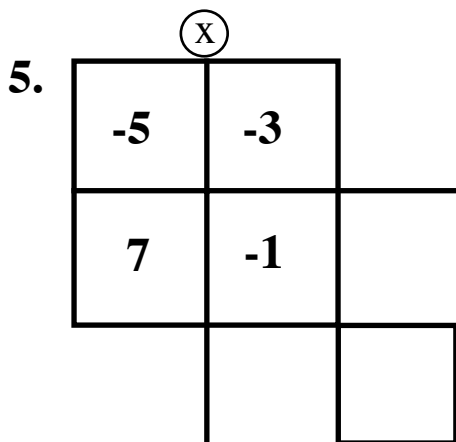
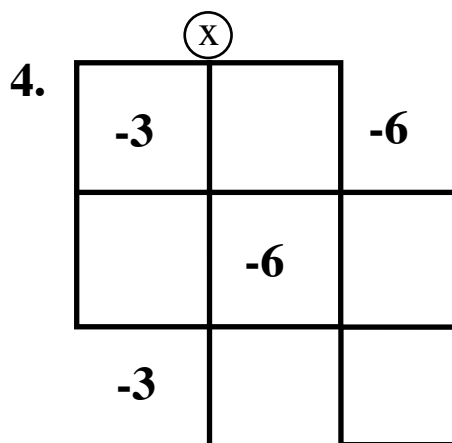
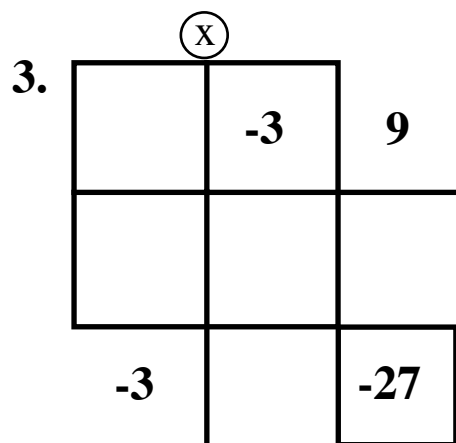
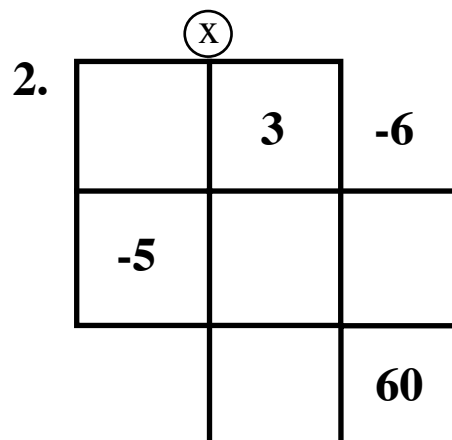
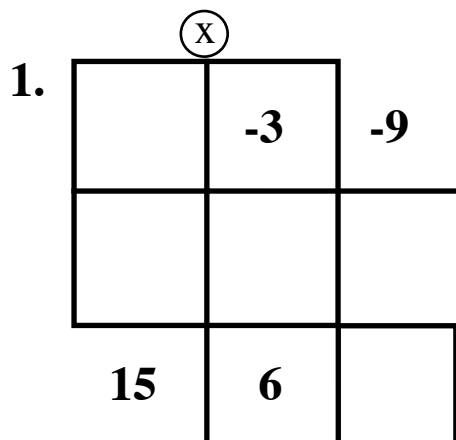
Integer Two Ways # 6



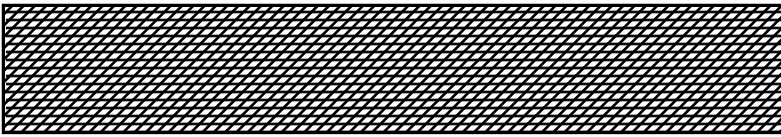
Integer Two Ways # 7



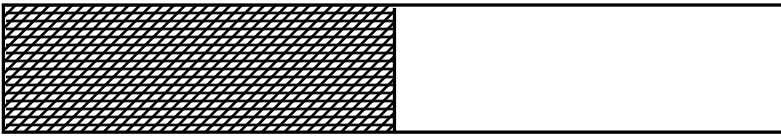
Integer Two Ways # 8



Fraction Bars



1



$\frac{1}{2}$



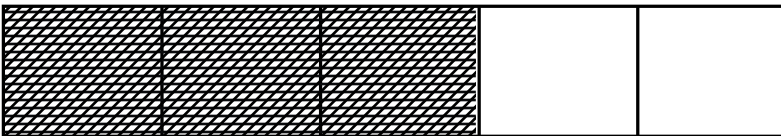
$\frac{1}{3}$



$\frac{1}{4}$



$\frac{1}{5}$



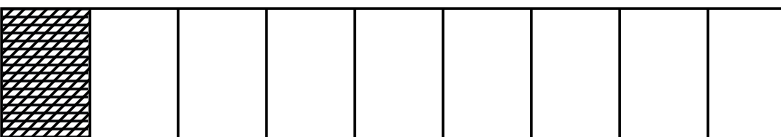
$\frac{3}{5}$



$\frac{1}{6}$



$\frac{1}{8}$



$\frac{1}{9}$

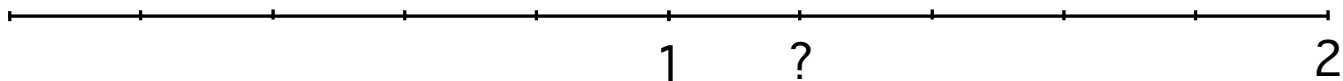
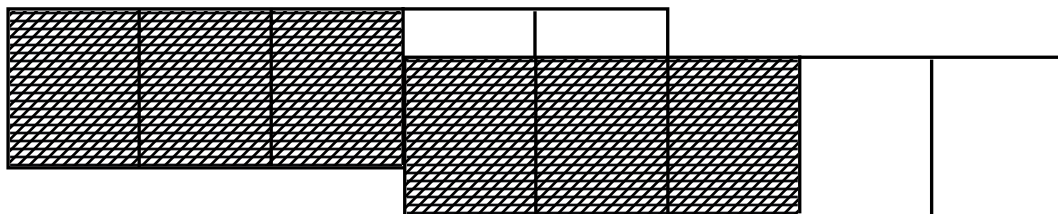
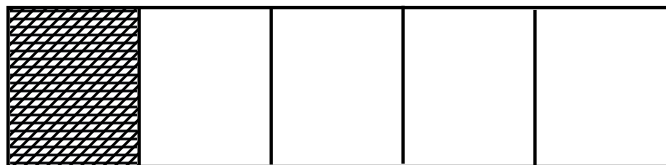


$\frac{1}{10}$

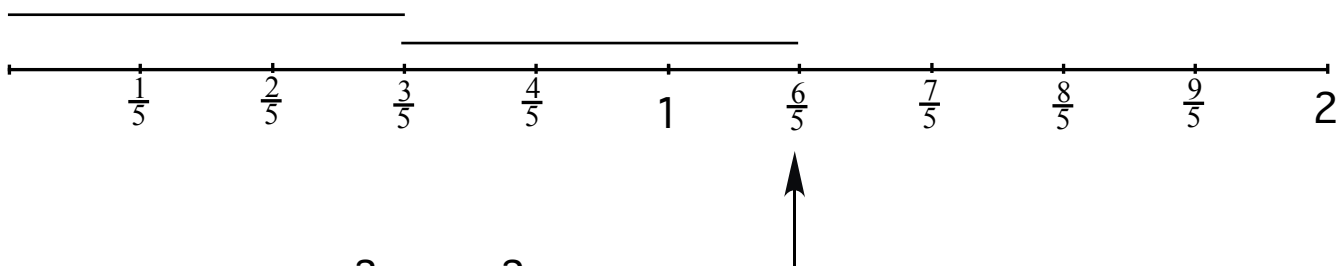
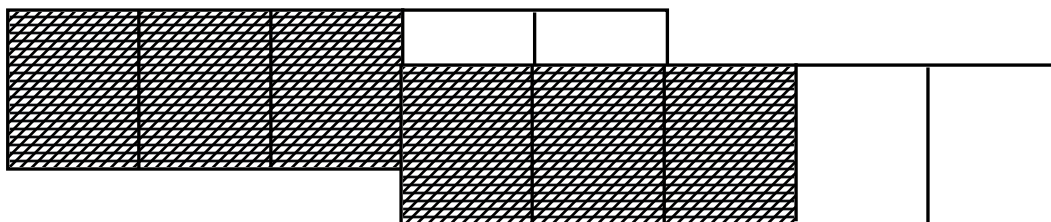


$\frac{1}{12}$

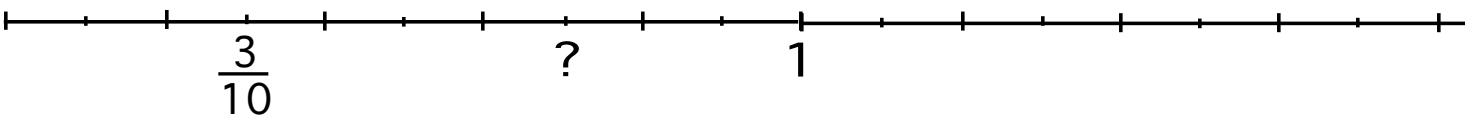
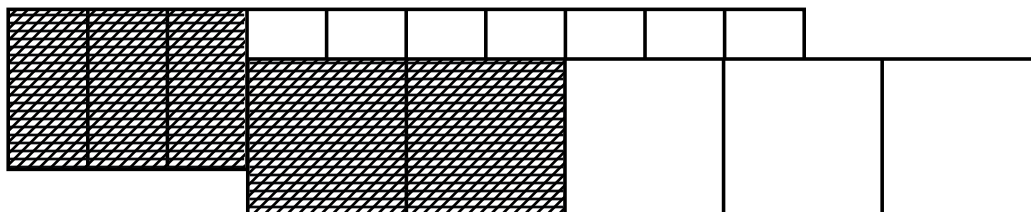
Adding Fractions



$$\frac{3}{5} + \frac{3}{5} = \frac{6}{5}$$

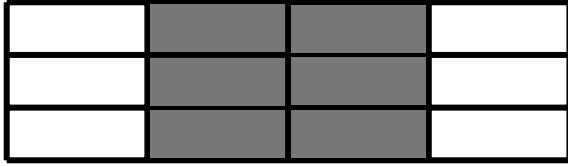


$$\frac{3}{10} + \frac{2}{5}$$



Fractions # 1

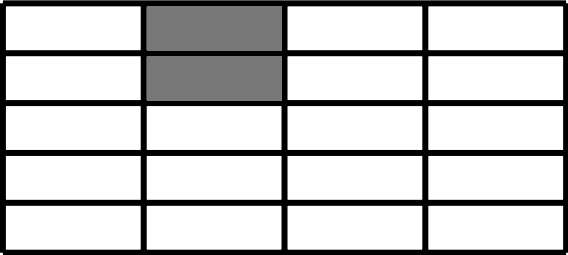
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

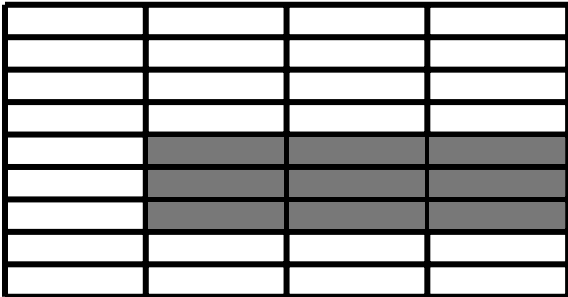
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

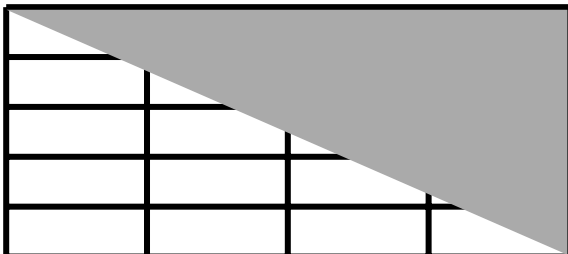
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

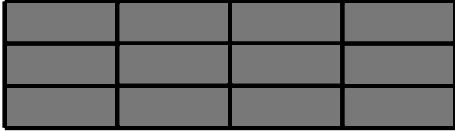


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 2

1.

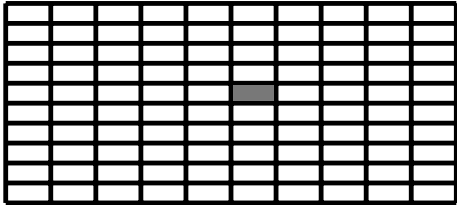


a. What fraction of the rectangle is shaded? _____

b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

2.

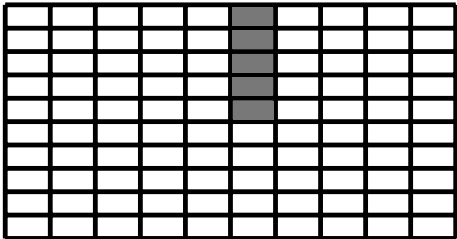


a. What fraction of the rectangle is shaded? _____

b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

3.

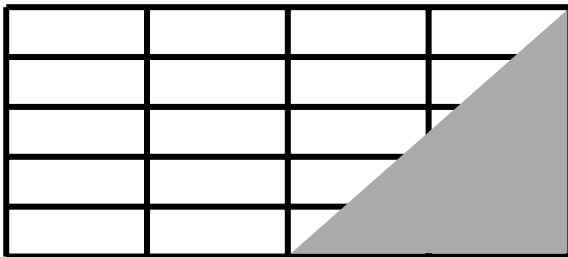


a. What fraction of the rectangle is shaded? _____

b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.



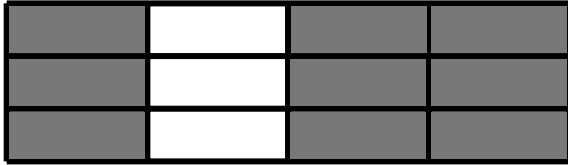
a. What fraction of the figure is shaded? _____

b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 3

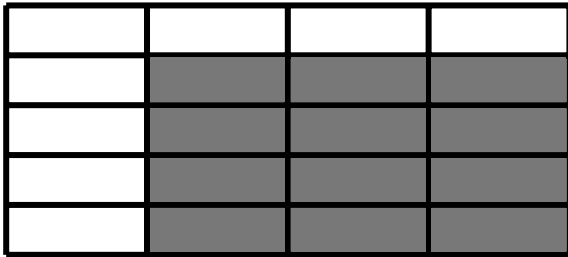
1.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

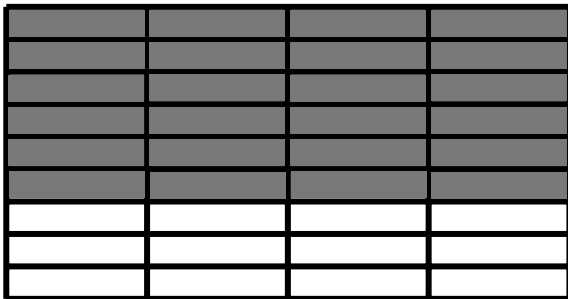
2.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

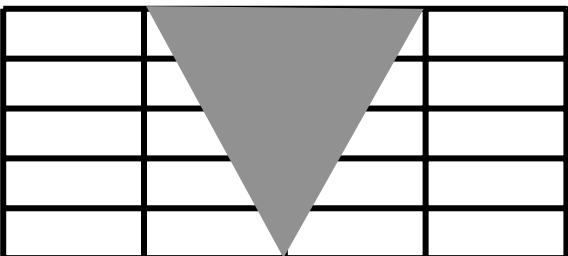
3.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

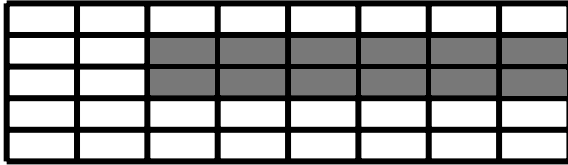


- a. What fraction of the figure is shaded? _____
 b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 4

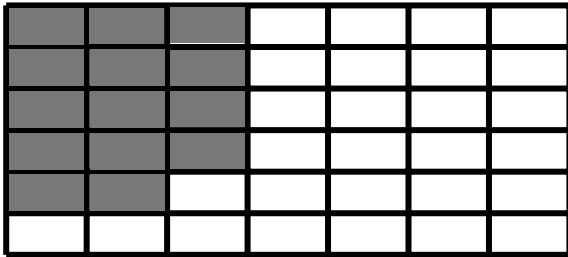
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

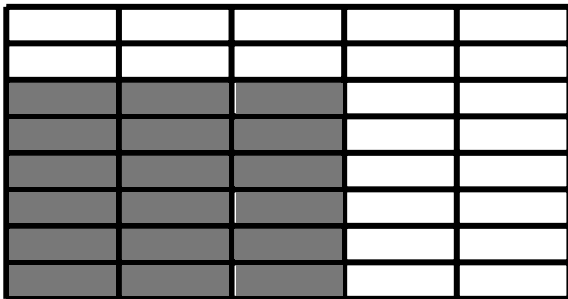
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

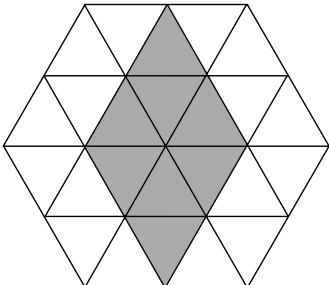
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

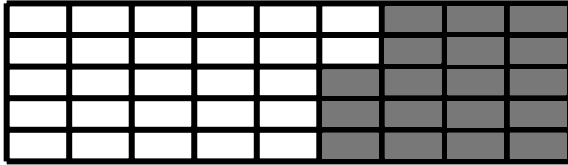


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 5

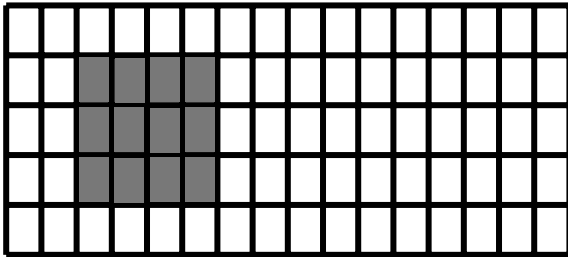
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

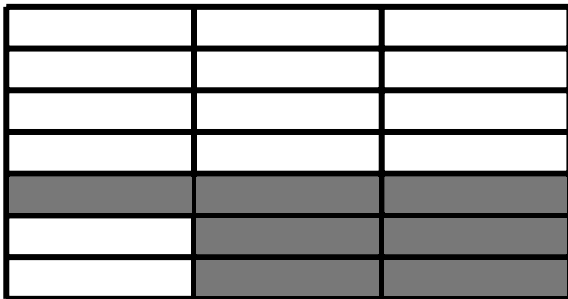
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

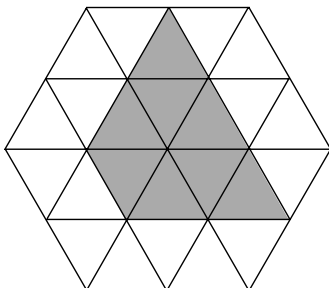
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

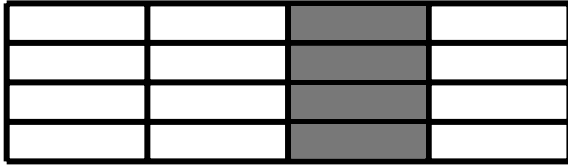


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 6

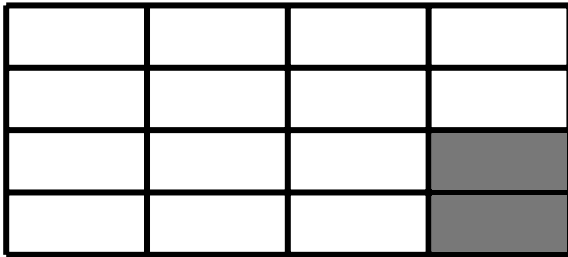
1.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

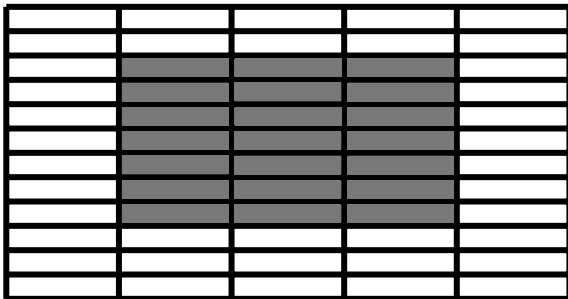
2.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

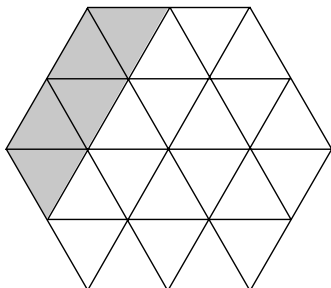
3.



- a. What fraction of the rectangle is shaded? _____
 b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

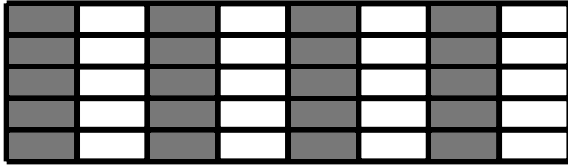


- a. What fraction of the figure is shaded? _____
 b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 7

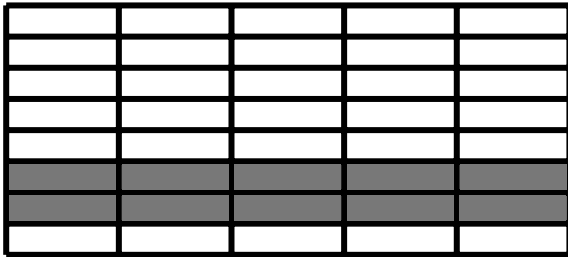
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

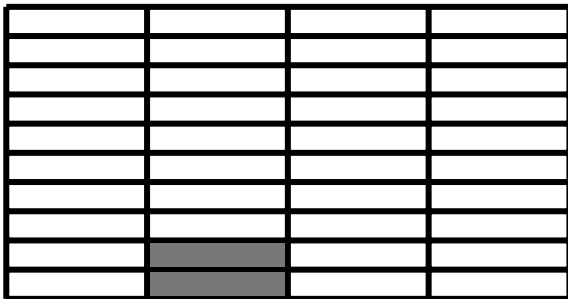
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

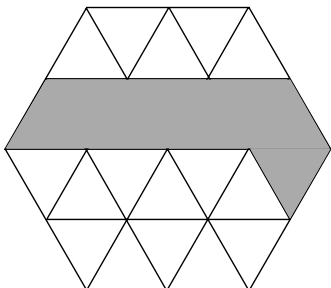
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

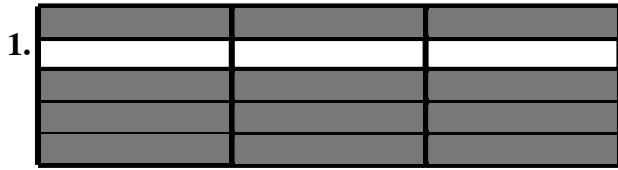
4.



- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

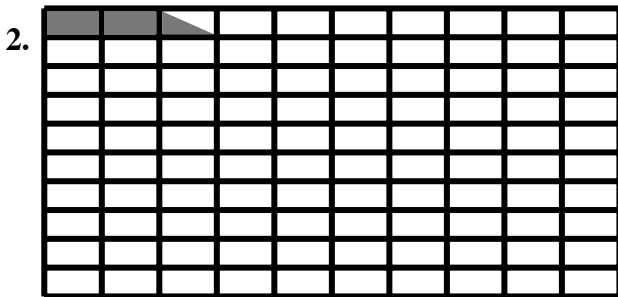
c. Express your answer using other fraction names. _____

Fractions # 8



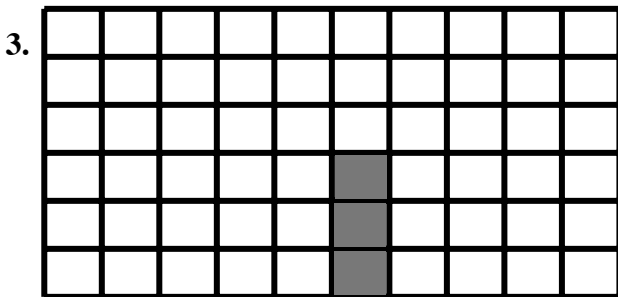
- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____



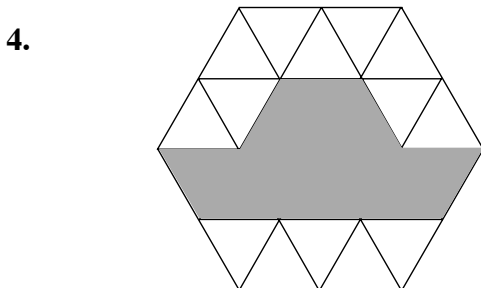
- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

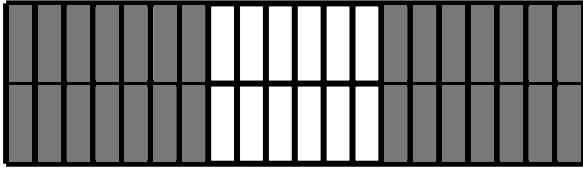


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 9

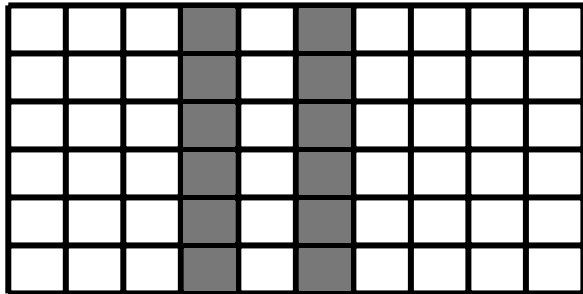
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

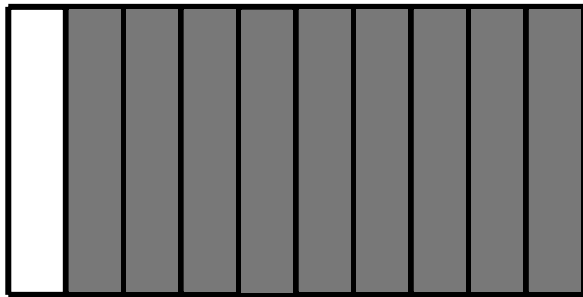
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

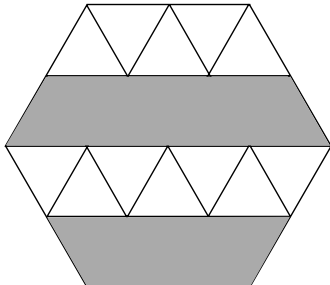
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

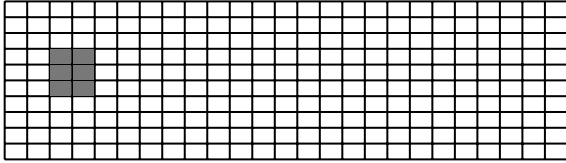


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 10

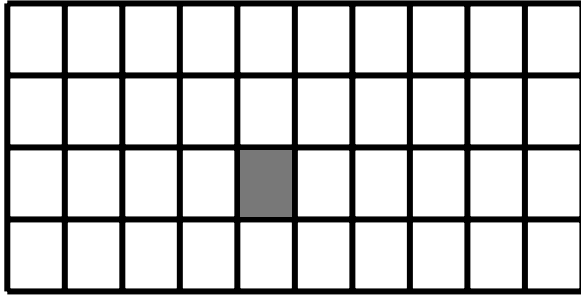
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

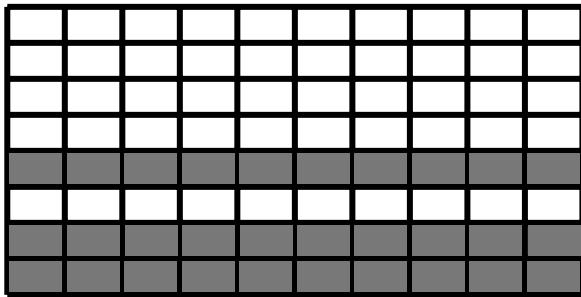
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

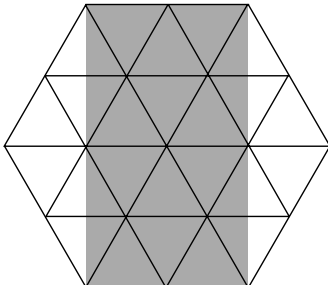
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

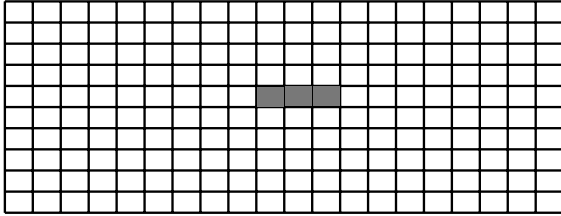


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

c. Express your answer using other fraction names. _____

Fractions # 11

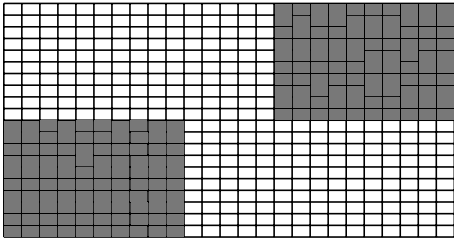
1.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

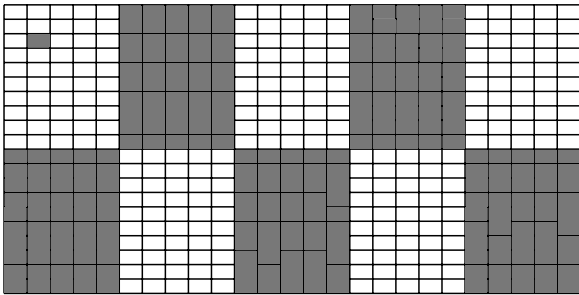
2.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction names. _____

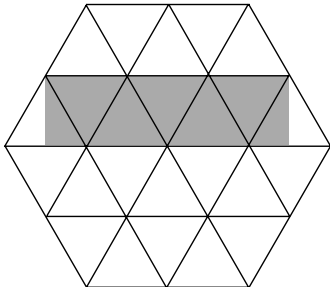
3.



- a. What fraction of the rectangle is shaded? _____
- b. What fraction of the rectangle is NOT shaded? _____

c. Express your answer using other fraction name _____

4.

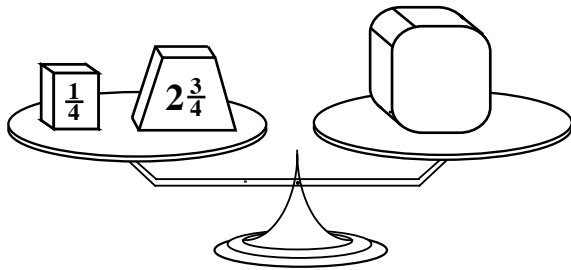


- a. What fraction of the figure is shaded? _____
- b. What fraction of the figure is NOT shaded? _____

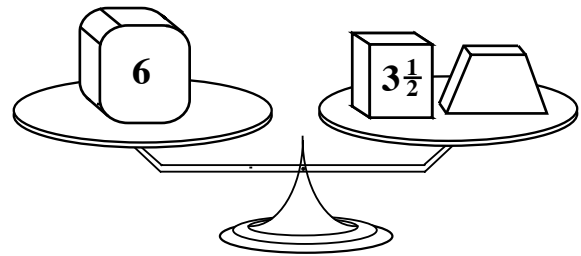
c. Express your answer using other fraction names. _____

Fraction Balance # 1

1.

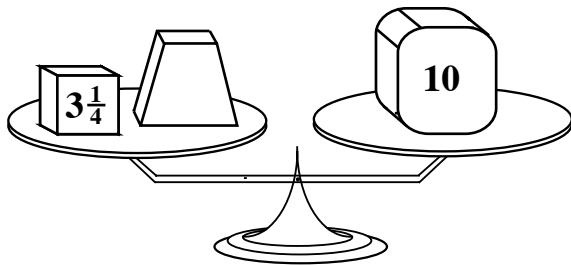


2.

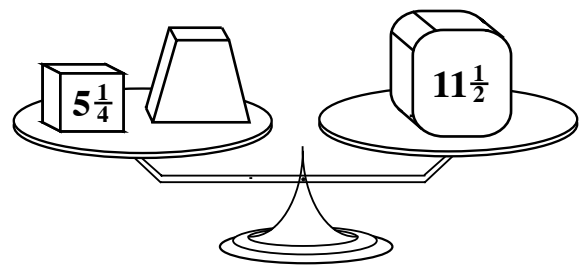


Boxes that are the same size and shape must have the same number in them.

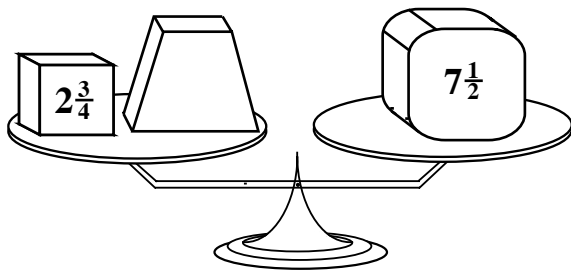
3.



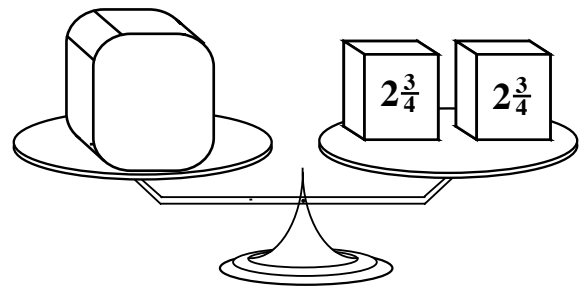
4.



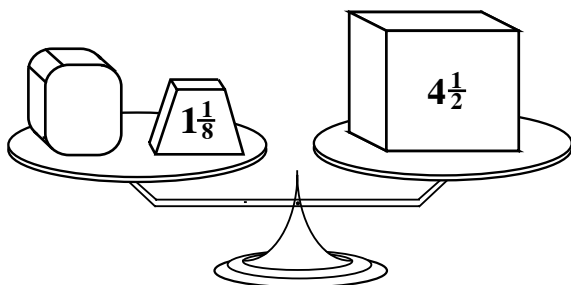
5.



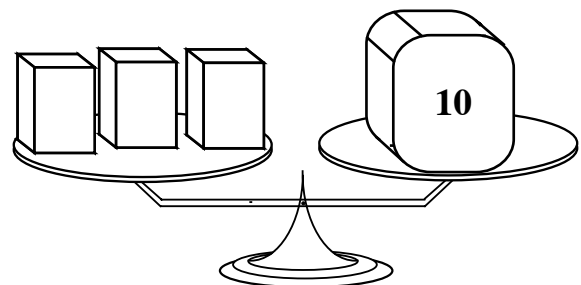
6.



7.

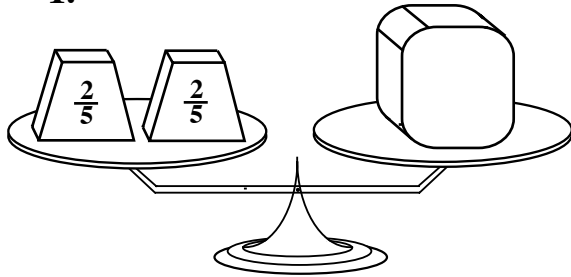


8.

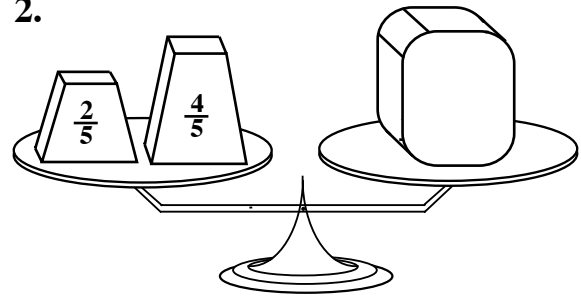


Fraction Balance # 2

1.

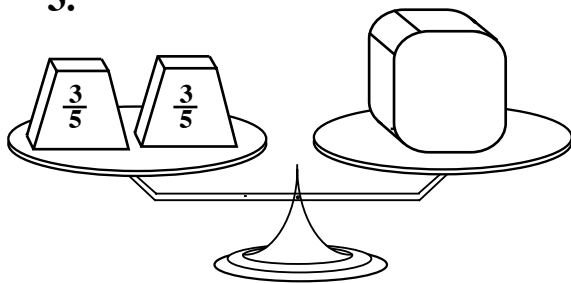


2.

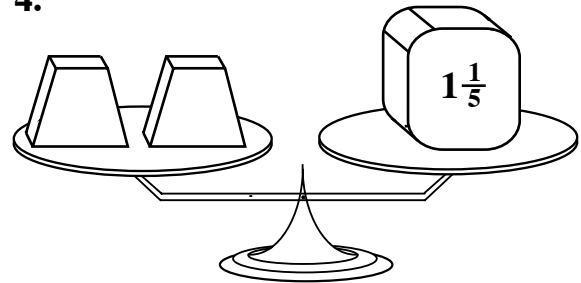


Boxes that are the same size and shape must have the same number in them.

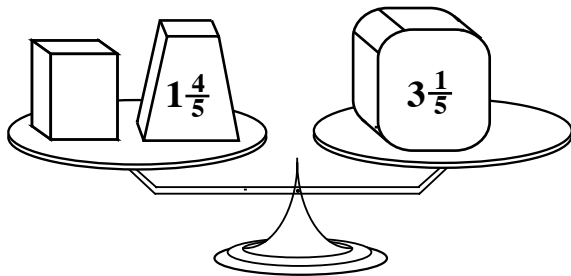
3.



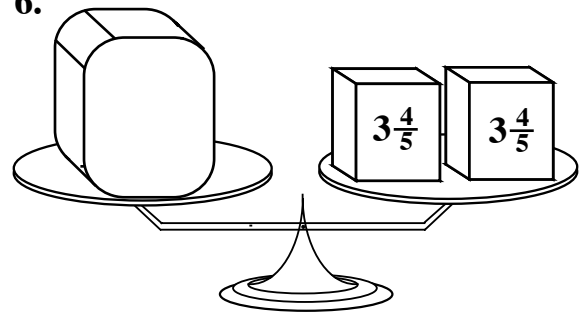
4.



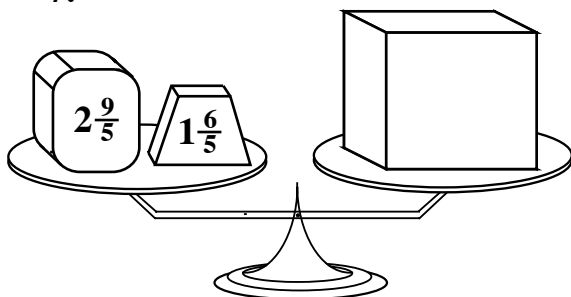
5.



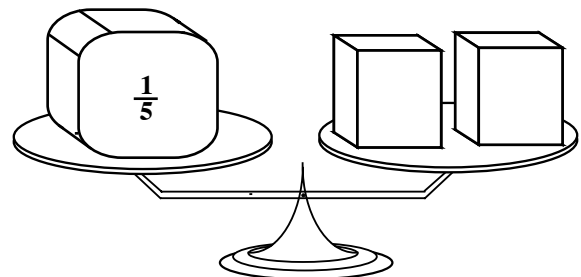
6.



7.

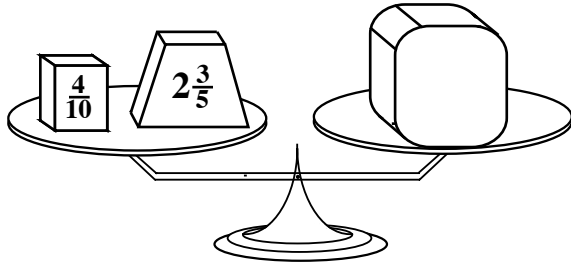


8.

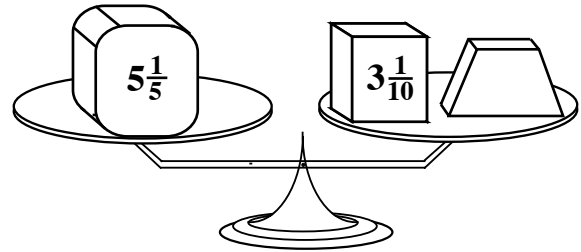


Fraction Balance # 3

1.

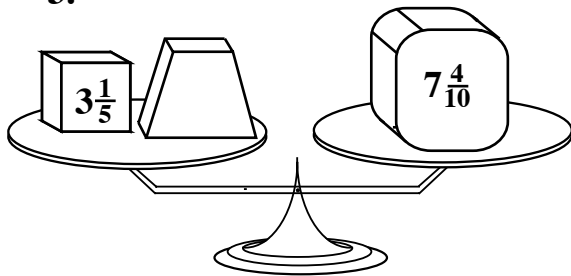


2.

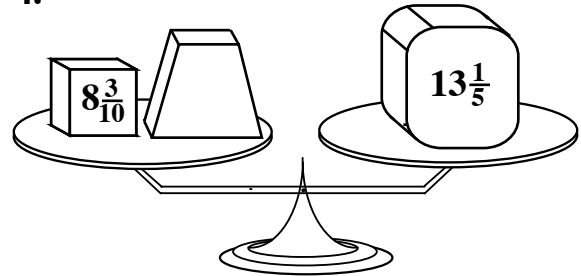


Boxes that are the same size and shape must have the same number in them.

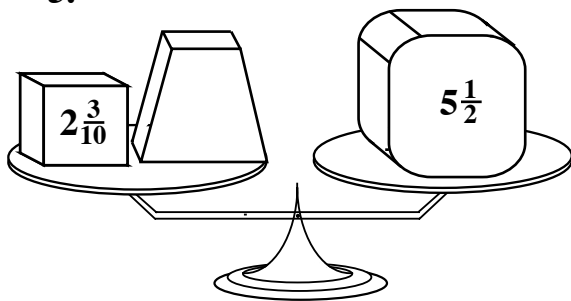
3.



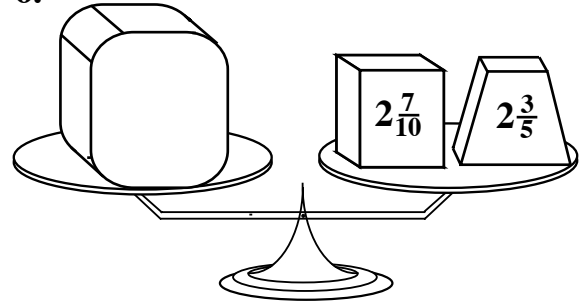
4.



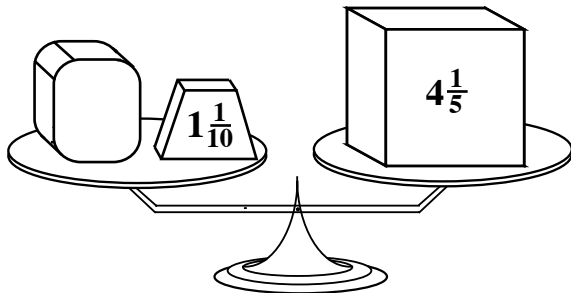
5.



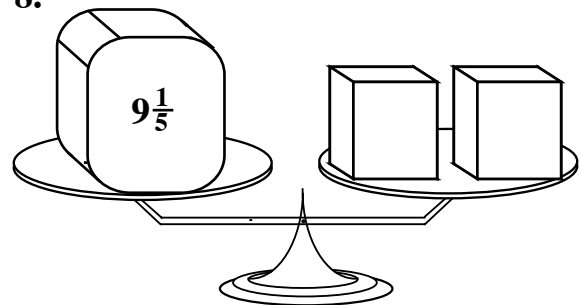
6.



7.

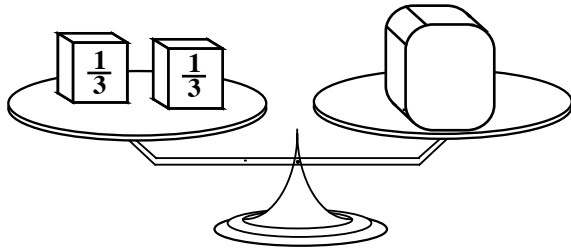


8.

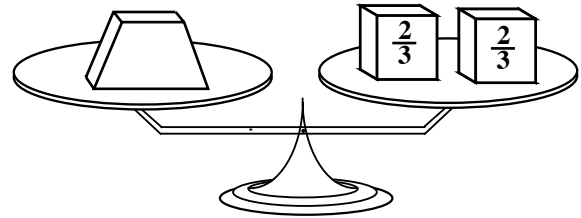


Fraction Balance # 4

1.

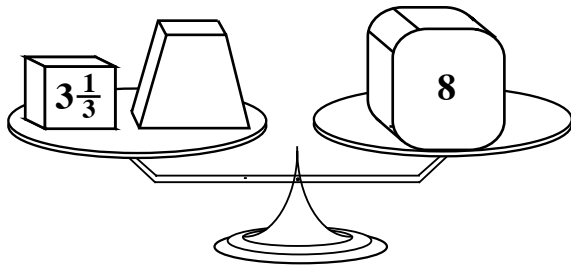


2.

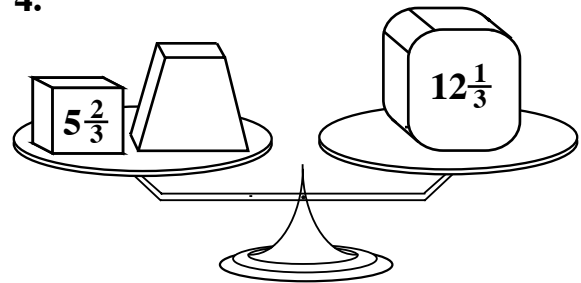


Boxes that are the same size and shape must have the same number in them.

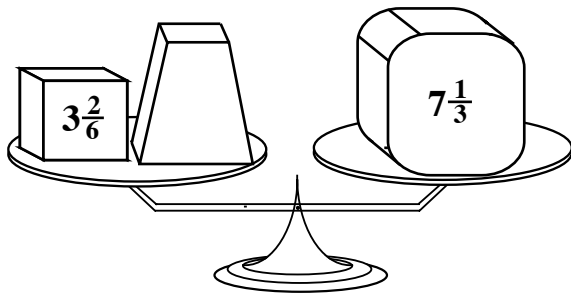
3.



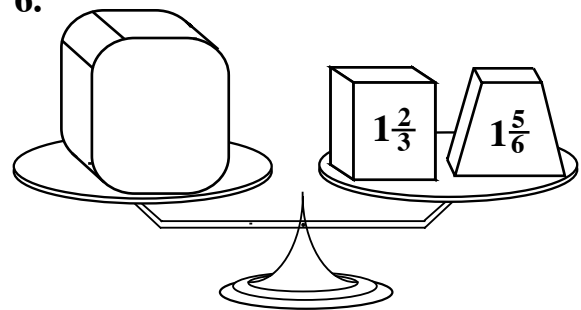
4.



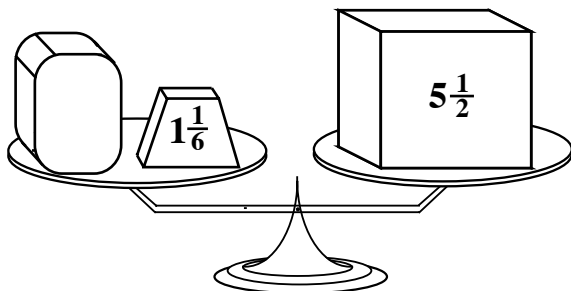
5.



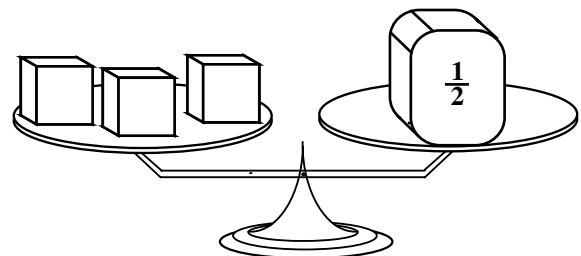
6.



7.

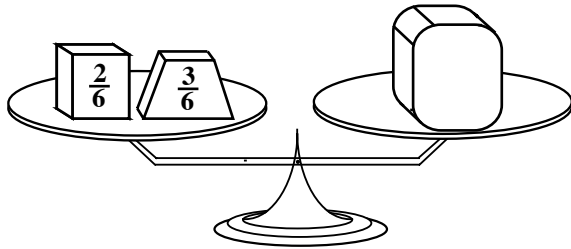


8.

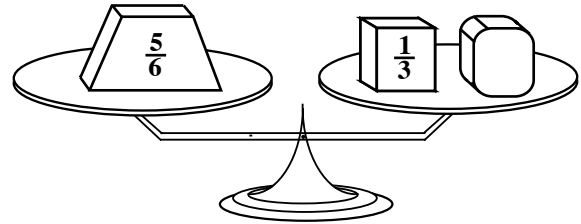


Fraction Balance # 5

1.

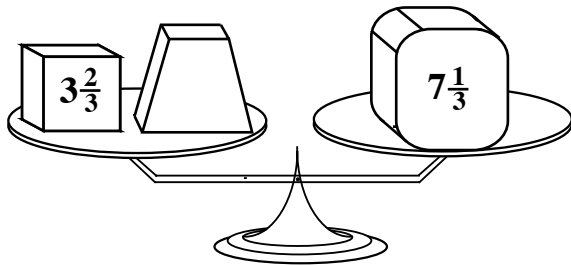


2.

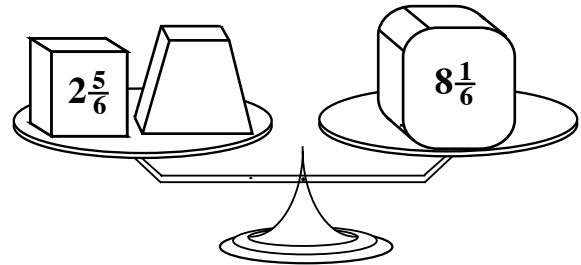


Boxes that are the same size and shape must have the same number in them.

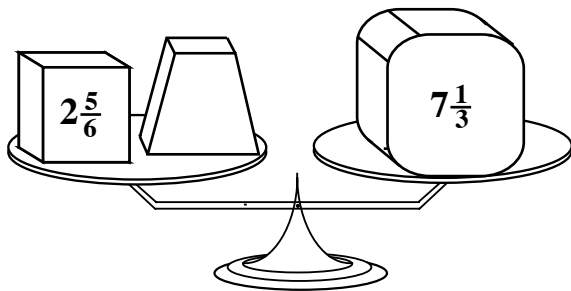
3.



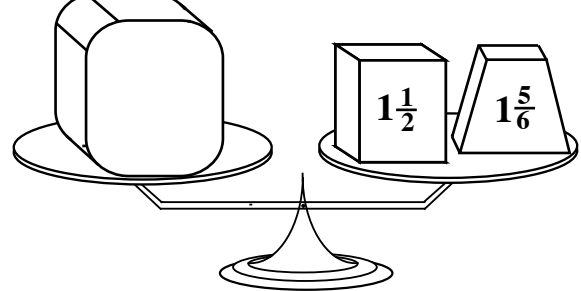
4.



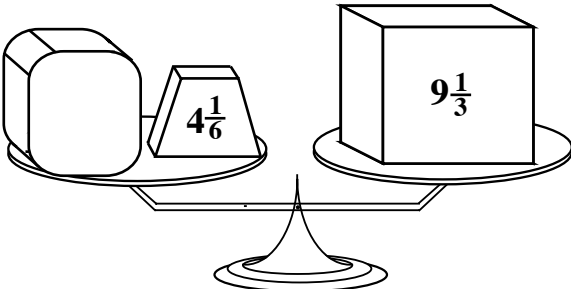
5.



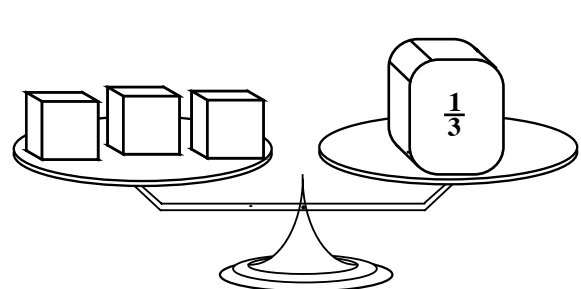
6.



7.

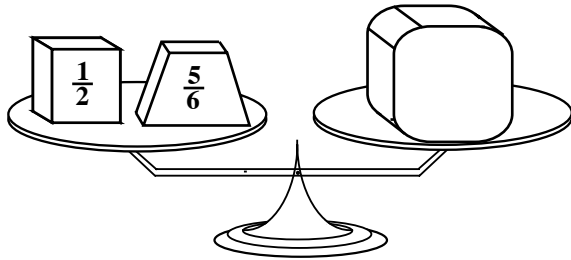


8.

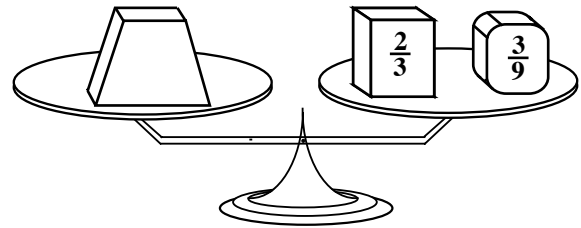


Fraction Balance # 6

1.

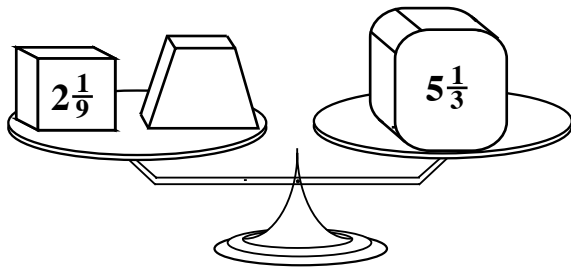


2.

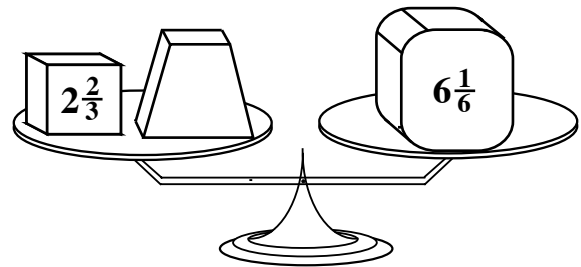


Boxes that are the same size and shape must have the same number in them.

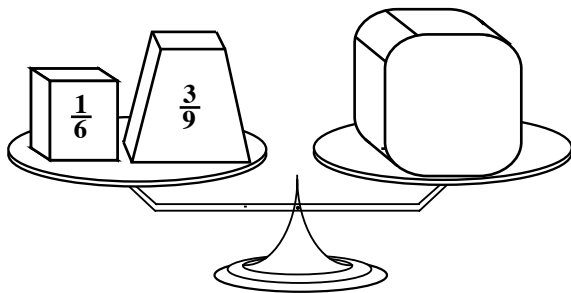
3.



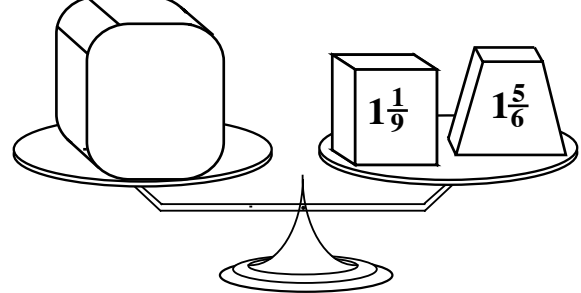
4.



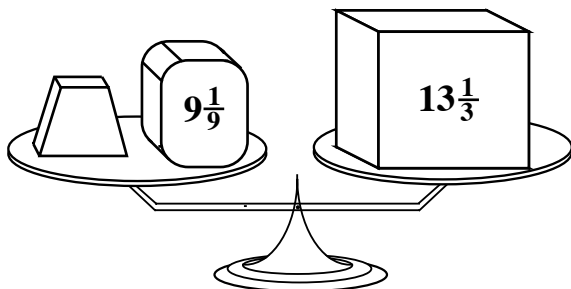
5.



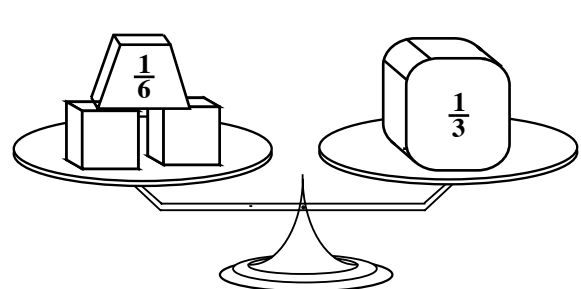
6.



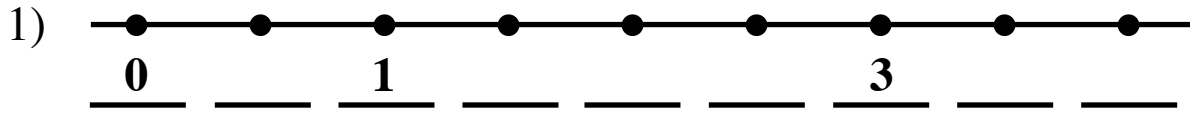
7.



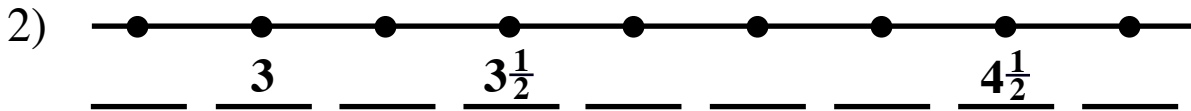
8.



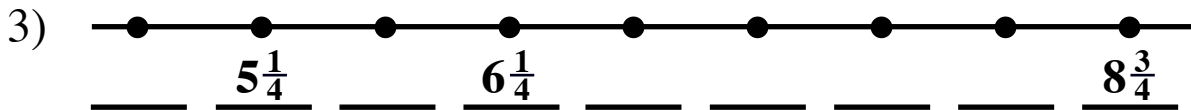
Fraction Sequence # 1



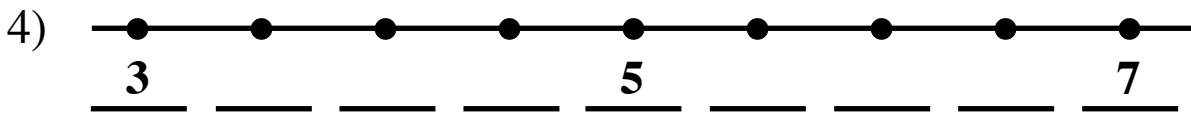
What is the pattern? _____



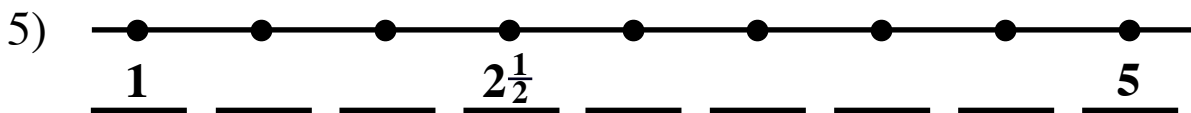
What is the pattern? _____



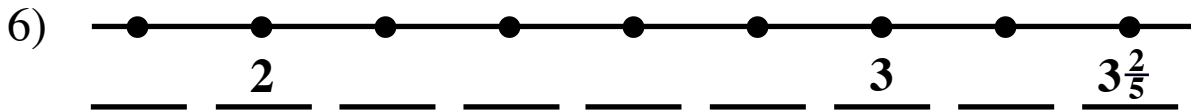
What is the pattern? _____



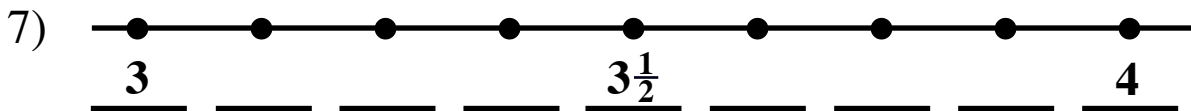
What is the pattern? _____



What is the pattern? _____

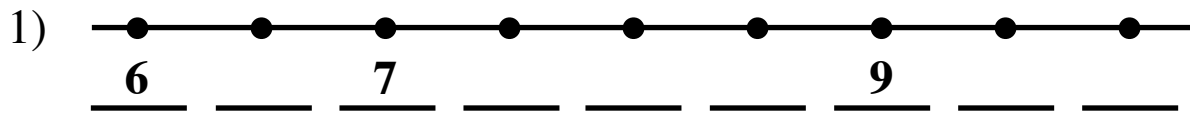


What is the pattern? _____

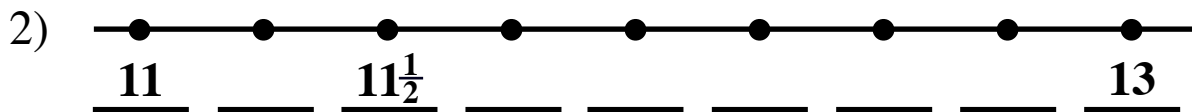


What is the pattern? _____

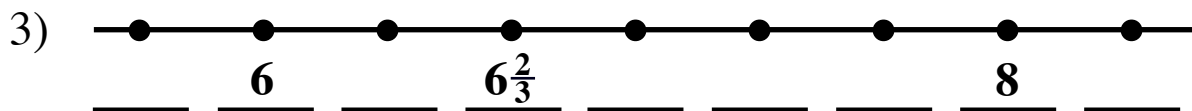
Fraction Sequence # 2



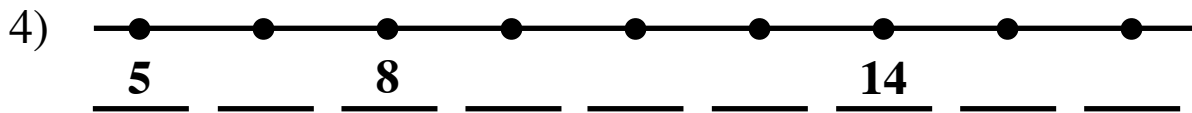
What is the pattern? _____



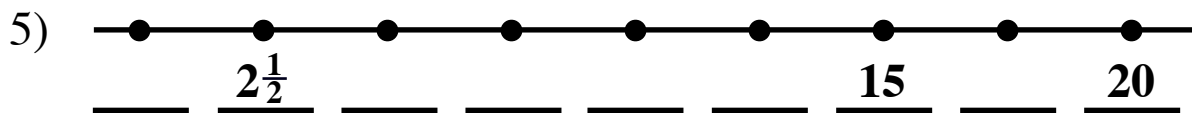
What is the pattern? _____



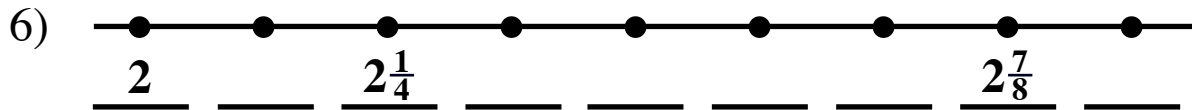
What is the pattern? _____



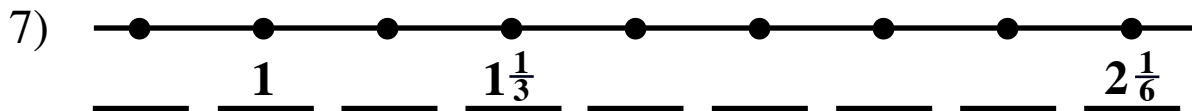
What is the pattern? _____



What is the pattern? _____

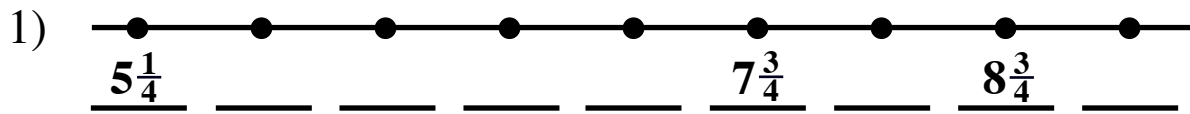


What is the pattern? _____

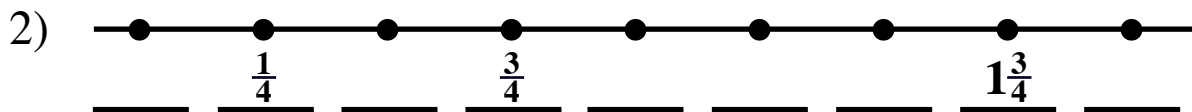


What is the pattern? _____

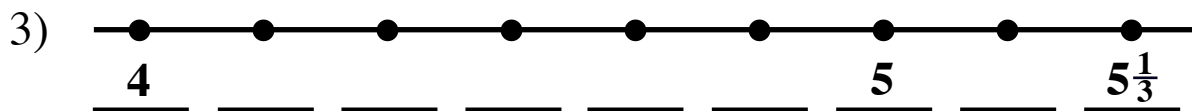
Fraction Sequence # 3



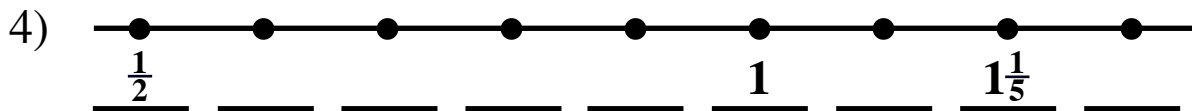
What is the pattern? _____



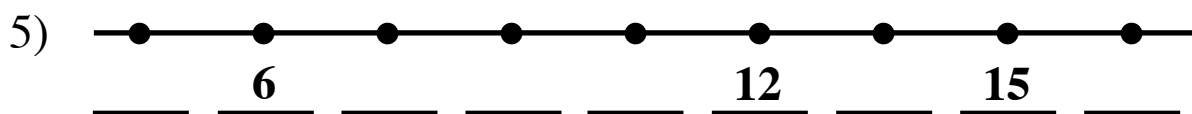
What is the pattern? _____



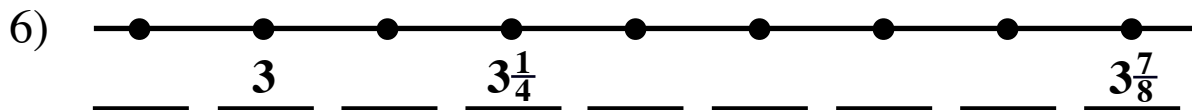
What is the pattern? _____



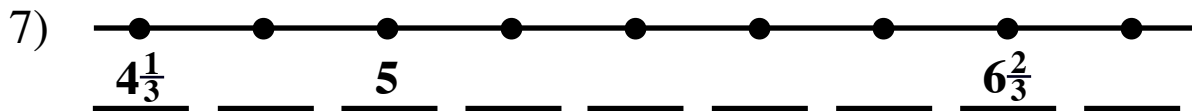
What is the pattern? _____



What is the pattern? _____

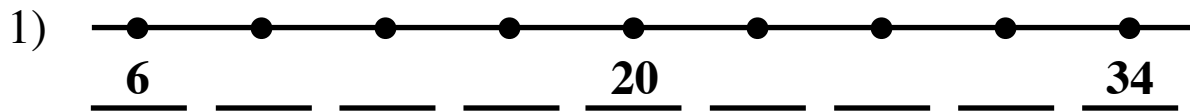


What is the pattern? _____

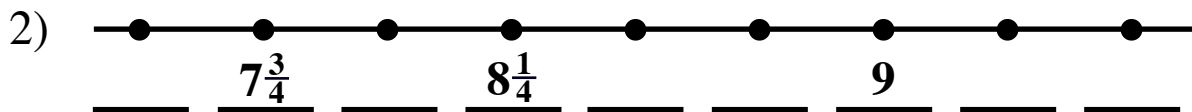


What is the pattern? _____

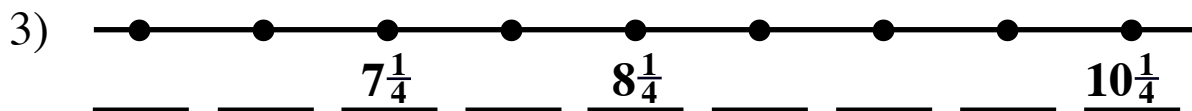
Fraction Sequence # 4



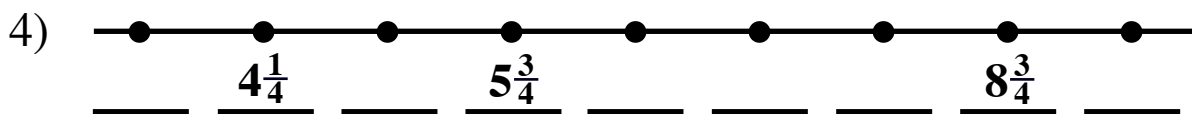
What is the pattern? _____



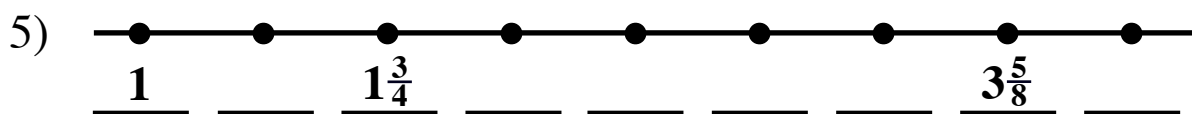
What is the pattern? _____



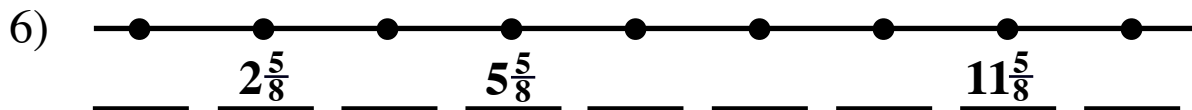
What is the pattern? _____



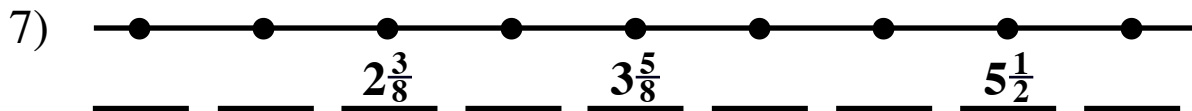
What is the pattern? _____



What is the pattern? _____

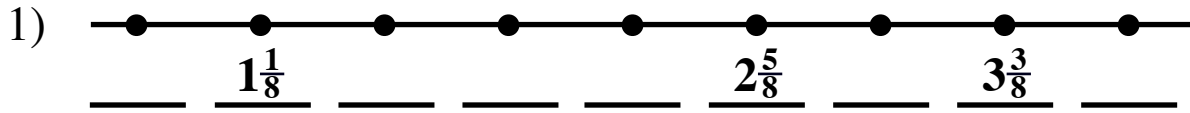


What is the pattern? _____

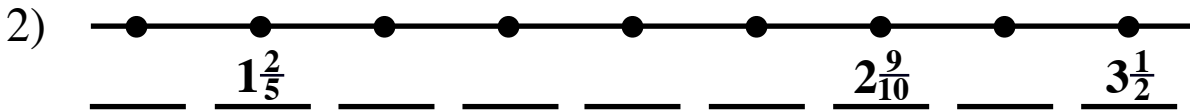


What is the pattern? _____

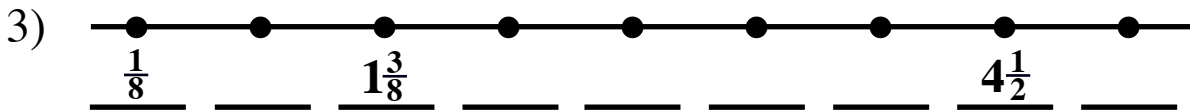
Fraction Sequence # 5



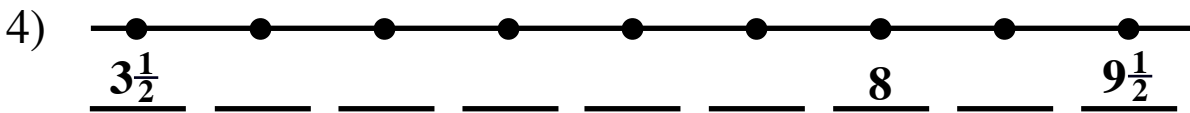
What is the pattern? _____



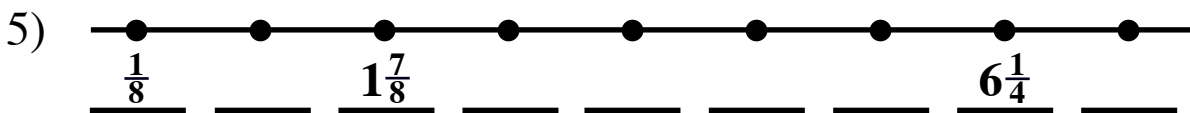
What is the pattern? _____



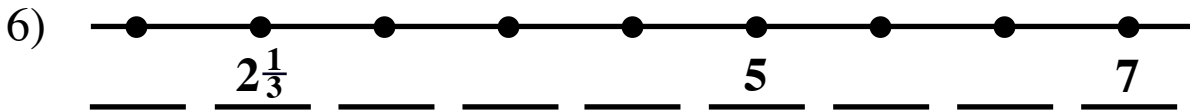
What is the pattern? _____



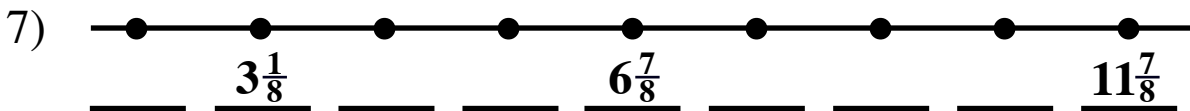
What is the pattern? _____



What is the pattern? _____

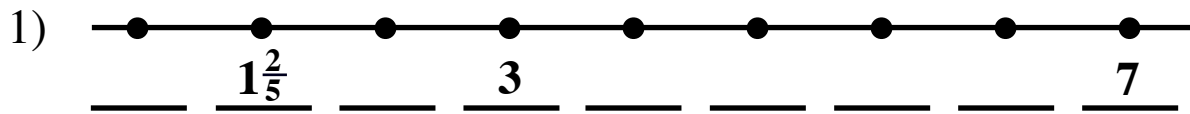


What is the pattern? _____

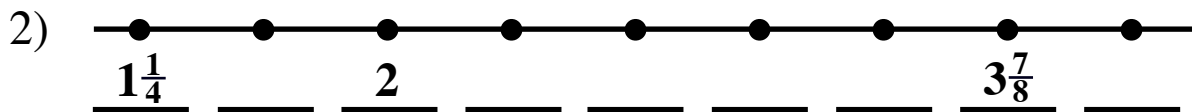


What is the pattern? _____

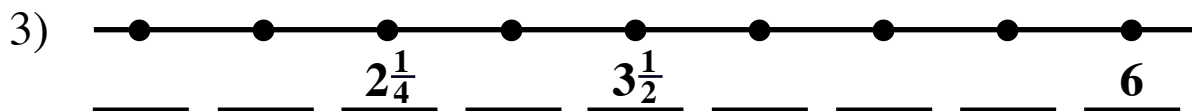
Fraction Sequence # 6



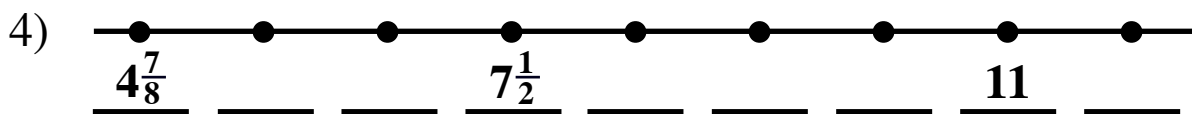
What is the pattern? _____



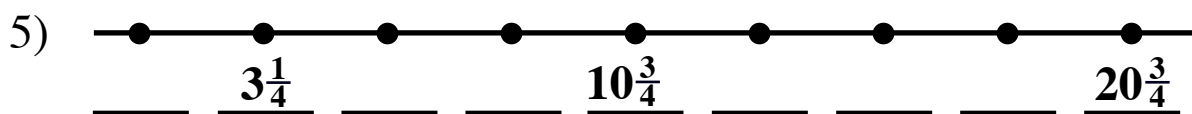
What is the pattern? _____



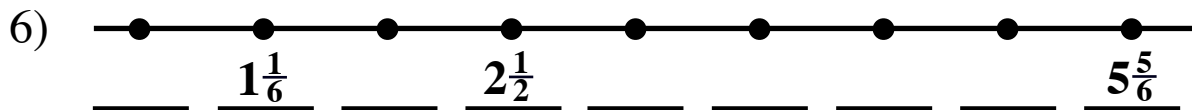
What is the pattern? _____



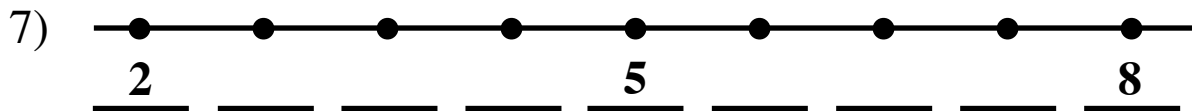
What is the pattern? _____



What is the pattern? _____

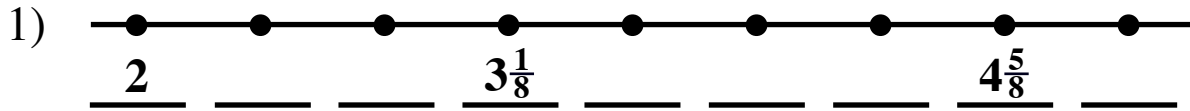


What is the pattern? _____

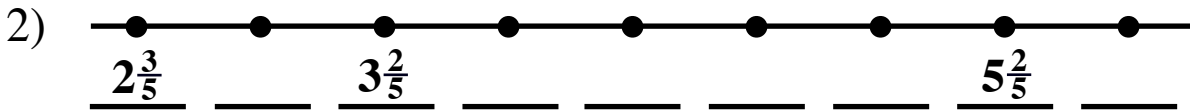


What is the pattern? _____

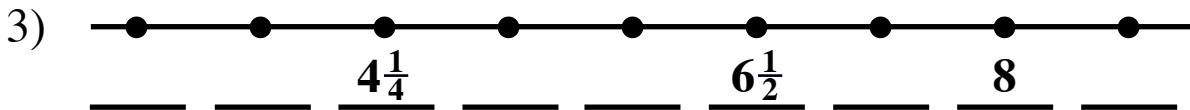
Fraction Sequence # 7



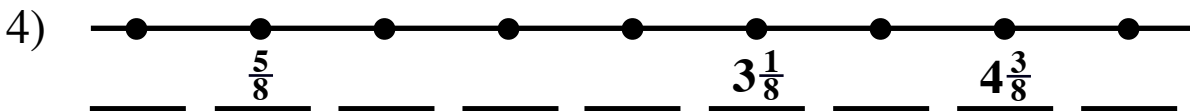
What is the pattern? _____



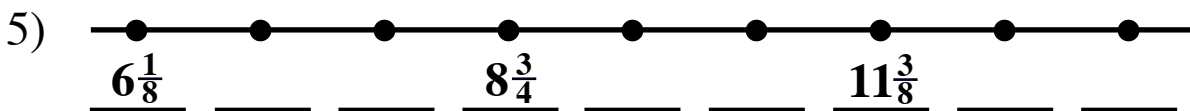
What is the pattern? _____



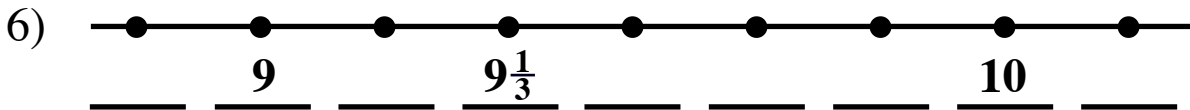
What is the pattern? _____



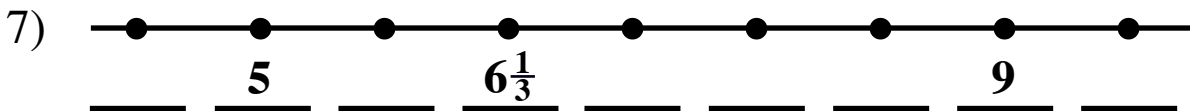
What is the pattern? _____



What is the pattern? _____

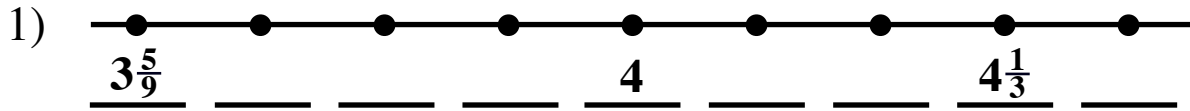


What is the pattern? _____

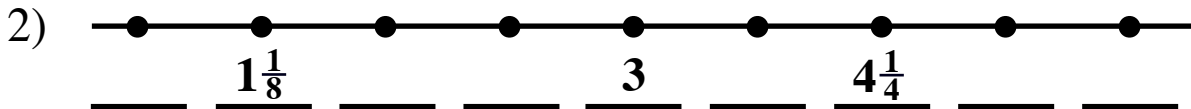


What is the pattern? _____

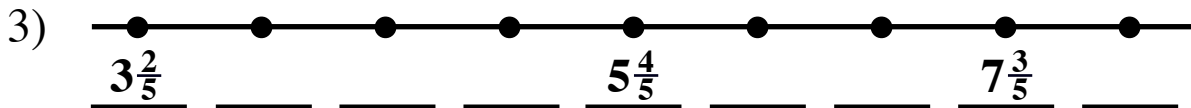
Fraction Sequence # 8



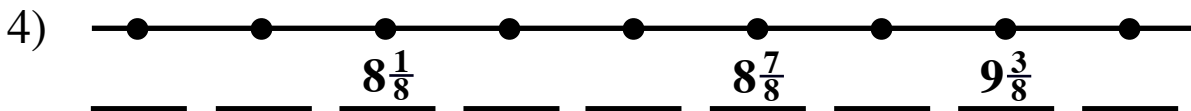
What is the pattern? _____



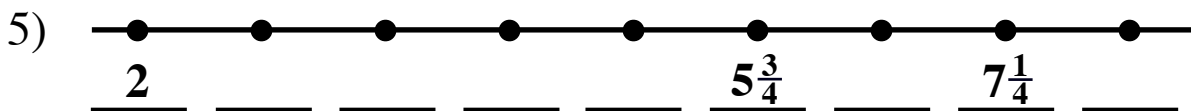
What is the pattern? _____



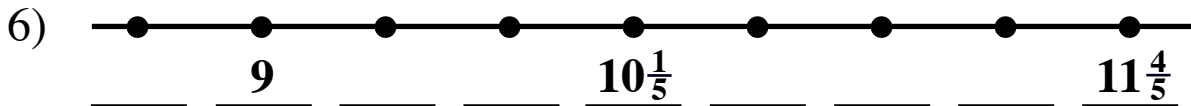
What is the pattern? _____



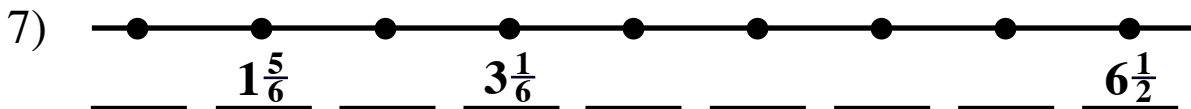
What is the pattern? _____



What is the pattern? _____



What is the pattern? _____



What is the pattern? _____

Fraction Benchmark # 1

1.

$\frac{2}{2}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{10}$
60						

a) $\frac{6}{6} \times 60 = \underline{\hspace{2cm}}$ b) $\frac{2}{3}$ of 60 is $\underline{\hspace{2cm}}$

c) $\frac{2}{4} \times 60 = \underline{\hspace{2cm}}$ d) $\frac{3}{4}$ of 60 is $\underline{\hspace{2cm}}$

e) $\frac{2}{5} \times 60 = \underline{\hspace{2cm}}$ f) $\frac{3}{5}$ of 60 is $\underline{\hspace{2cm}}$

g) $\frac{4}{5} \times 60 = \underline{\hspace{2cm}}$ h) $\frac{5}{6}$ of 60 is $\underline{\hspace{2cm}}$

i) $\frac{3}{10} \times 60 = \underline{\hspace{2cm}}$ j) $\frac{7}{10}$ of 60 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 60 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 60 is $\underline{\hspace{2cm}}$

2.

$\frac{10}{10}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{10}$	$\frac{1}{30}$
30						

a) $\frac{2}{3}$ of 30 = $\underline{\hspace{2cm}}$ b) $\frac{2}{5} \times 30$ is $\underline{\hspace{2cm}}$

c) $\frac{3}{5}$ of 30 = $\underline{\hspace{2cm}}$ d) $\frac{4}{5} \times 30$ is $\underline{\hspace{2cm}}$

e) $\frac{4}{6}$ of 30 = $\underline{\hspace{2cm}}$ f) $\frac{5}{6} \times 30$ is $\underline{\hspace{2cm}}$

g) $\frac{3}{10}$ of 30 = $\underline{\hspace{2cm}}$ h) $\frac{7}{10} \times 30$ is $\underline{\hspace{2cm}}$

i) $\frac{7}{30}$ of 30 = $\underline{\hspace{2cm}}$ j) $\frac{9}{30} \times 30$ is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 30 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 30$ is $\underline{\hspace{2cm}}$

Fraction Benchmark # 2

1.

$\frac{8}{8}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{12}$
24						

a) $\frac{3}{2}$ x 24 = _____ b) $\frac{2}{3}$ of 24 is _____

c) $\frac{3}{8}$ x 24 = _____ d) $\frac{3}{4}$ of 24 is _____

e) $\frac{5}{8}$ x 24 = _____ f) $\frac{7}{8}$ of 24 is _____

g) $\frac{5}{6}$ x 24 = _____ h) $1\frac{1}{4}$ of 24 is _____

i) $\frac{7}{12}$ x 24 = _____ j) $\frac{11}{12}$ of 24 is _____

Make up two of your own.

k) _____ x 24 = _____ l) _____ of 24 is _____

2.

$\frac{4}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{16}$
16						

a) $\frac{2}{3}$ of 16 = _____ b) $\frac{5}{8}$ x 16 is _____

c) $\frac{3}{4}$ of 16 = _____ d) $\frac{12}{16}$ x 16 is _____

e) $\frac{3}{8}$ of 16 = _____ f) $\frac{7}{8}$ x 16 is _____

g) $\frac{12}{8}$ of 16 = _____ h) $1\frac{1}{2}$ x 16 is _____

i) $\frac{7}{16}$ of 16 = _____ j) $1\frac{3}{8}$ x 16 is _____

Make up two of your own.

k) _____ of 16 = _____ l) _____ x 16 is _____

Fraction Benchmark # 3

1.

$\frac{7}{7}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$
42						

a) $\frac{2}{3}$ x 42 = _____ b) $\frac{3}{4}$ of 42 is _____

c) $\frac{5}{6}$ x 42 = _____ d) $\frac{2}{7}$ of 42 is _____

e) $\frac{3}{7}$ x 42 = _____ f) $\frac{4}{7}$ of 42 is _____

g) $2\frac{1}{3}$ x 42 = _____ h) $\frac{3}{8}$ of 42 is _____

i) $\frac{5}{8}$ x 42 = _____ j) $\frac{7}{6}$ of 42 is _____

Make up two of your own.

k) _____ x 42 = _____ l) _____ of 42 is _____

2.

$\frac{4}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$
10				

a) $\frac{2}{3}$ of 10 = _____ b) $\frac{3}{4}$ x 10 is _____

c) $\frac{2}{5}$ of 10 = _____ d) $\frac{3}{5}$ x 10 is _____

e) $5\frac{1}{4}$ of 10 = _____ f) $\frac{3}{8}$ x 10 is _____

g) $\frac{5}{8}$ of 10 = _____ h) $\frac{7}{8}$ x 10 is _____

i) $1\frac{1}{2}$ of 10 = _____ j) $\frac{15}{10}$ x 10 is _____

Make up two of your own.

k) _____ of 10 = _____ l) _____ x 10 is _____

Fraction Benchmark # 4

1.

$\frac{15}{15}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{15}$
300						

a) $\frac{2}{3}$ x 300 = _____ b) $\frac{3}{4}$ of 300 is _____

c) $\frac{2}{5}$ x 300 = _____ d) $\frac{3}{5}$ of 300 is _____

e) $2\frac{1}{3}$ x 300 = _____ f) $\frac{5}{6}$ of 300 is _____

g) $\frac{4}{15}$ x 300 = _____ h) $\frac{7}{15}$ of 300 is _____

i) $\frac{14}{15}$ x 300 = _____ j) $\frac{16}{5}$ of 300 is _____

Make up two of your own.

k) _____ x 300 = _____ l) _____ of 300 is _____

2.

$\frac{6}{6}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{12}$
156						

a) $\frac{2}{3}$ of 156 = _____ b) $\frac{3}{4}$ x 156 is _____

c) $\frac{5}{6}$ of 156 = _____ d) $\frac{3}{8}$ x 156 is _____

e) $\frac{5}{8}$ of 156 = _____ f) $\frac{7}{8}$ x 156 is _____

g) $\frac{5}{12}$ of 156 = _____ h) $\frac{7}{12}$ x 156 is _____

i) $\frac{11}{12}$ of 156 = _____ j) $\frac{4}{3}$ x 156 is _____

Make up two of your own.

k) _____ of 156 = _____ l) _____ x 156 is _____

Fraction Benchmark # 5

1.

$\frac{5}{5}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{10}$	$\frac{1}{20}$	$\frac{1}{100}$
100						

a) $\frac{3}{4}$ x 100 = _____ b) $\frac{2}{5}$ of 100 is _____

c) $\frac{3}{5}$ x 100 = _____ d) $\frac{4}{5}$ of 100 is _____

e) $\frac{3}{10}$ x 100 = _____ f) $\frac{7}{10}$ of 100 is _____

g) $\frac{3}{20}$ x 100 = _____ h) $6\frac{3}{4}$ of 100 is _____

i) $\frac{9}{20}$ x 100 = _____ j) $\frac{19}{20}$ of 100 is _____

Make up two of your own.

k) _____ x 100 = _____ l) _____ of 100 is _____

2.

$\frac{4}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{12}$
180						

a) $\frac{2}{3}$ of 180 = _____ b) $\frac{3}{4}$ x 180 is _____

c) $\frac{2}{5}$ of 180 = _____ d) $\frac{3}{5}$ x 180 is _____

e) $\frac{4}{5}$ of 180 = _____ f) $\frac{5}{6}$ x 180 is _____

g) $\frac{5}{12}$ of 180 = _____ h) $\frac{7}{12}$ x 180 is _____

i) $\frac{11}{12}$ of 180 = _____ j) $\frac{15}{12}$ x 180 is _____

Make up two of your own.

k) _____ of 180 = _____ l) _____ x 180 is _____

Fraction Benchmark # 6

1.

$\frac{7}{7}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{16}$
96						

a) $\frac{2}{3}$ x 96 = _____ b) $\frac{3}{4}$ of 96 is _____

c) $\frac{5}{6}$ x 96 = _____ d) $\frac{3}{8}$ of 96 is _____

e) $\frac{5}{8}$ x 96 = _____ f) $\frac{7}{8}$ of 96 is _____

g) $\frac{5}{16}$ x 96 = _____ h) $\frac{7}{16}$ of 96 is _____

i) $\frac{15}{16}$ x 96 = _____ j) $\frac{17}{8}$ of 96 is _____

Make up two of your own.

k) _____ x 96 = _____ l) _____ of 96 is _____

2.

$\frac{9}{9}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{9}$
126						

a) $\frac{2}{3}$ of 126 = _____ b) $\frac{3}{4}$ x 126 is _____

c) $\frac{5}{6}$ of 126 = _____ d) $\frac{2}{7}$ x 126 is _____

e) $\frac{3}{7}$ of 126 = _____ f) $\frac{4}{7}$ x 126 is _____

g) $\frac{6}{7}$ of 126 = _____ h) $\frac{2}{9}$ x 126 is _____

i) $\frac{8}{9}$ of 126 = _____ j) $\frac{10}{9}$ x 126 is _____

Make up two of your own.

k) _____ of 126 = _____ l) _____ x 126 is _____

Fraction Benchmark # 7

1.

$\frac{12}{12}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{12}$
144						

a) $\frac{2}{3} \times 144 = \underline{\hspace{2cm}}$ b) $\frac{3}{4}$ of 144 is $\underline{\hspace{2cm}}$

c) $\frac{5}{6} \times 144 = \underline{\hspace{2cm}}$ d) $\frac{3}{8}$ of 144 is $\underline{\hspace{2cm}}$

e) $\frac{5}{8} \times 144 = \underline{\hspace{2cm}}$ f) $\frac{7}{8}$ of 144 is $\underline{\hspace{2cm}}$

g) $\frac{5}{12} \times 144 = \underline{\hspace{2cm}}$ h) $\frac{7}{12}$ of 144 is $\underline{\hspace{2cm}}$

i) $\frac{11}{12} \times 144 = \underline{\hspace{2cm}}$ j) $\frac{10}{6}$ of 144 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 144 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 144 is $\underline{\hspace{2cm}}$

2.

$\frac{3}{3}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{12}$
6						

a) $\frac{2}{3}$ of 6 = $\underline{\hspace{2cm}}$ b) $\frac{3}{4} \times 6$ is $\underline{\hspace{2cm}}$

c) $\frac{5}{6}$ of 6 = $\underline{\hspace{2cm}}$ d) $\frac{3}{8} \times 6$ is $\underline{\hspace{2cm}}$

e) $\frac{5}{8}$ of 6 = $\underline{\hspace{2cm}}$ f) $\frac{7}{8} \times 6$ is $\underline{\hspace{2cm}}$

g) $\frac{5}{12}$ of 6 = $\underline{\hspace{2cm}}$ h) $1\frac{1}{4} \times 6$ is $\underline{\hspace{2cm}}$

i) $\frac{11}{12}$ of 6 = $\underline{\hspace{2cm}}$ j) $\frac{10}{3} \times 6$ is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 6 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 6$ is $\underline{\hspace{2cm}}$

Fraction Benchmark # 8

1.

$\frac{5}{5}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{10}$
200						

a) $\frac{2}{3}$ x 200 = _____ b) $\frac{3}{4}$ of 200 is _____

c) $\frac{2}{5}$ x 200 = _____ d) $\frac{3}{5}$ of 200 is _____

e) $2\frac{2}{5}$ x 200 = _____ f) $\frac{3}{8}$ of 200 is _____

g) $\frac{5}{8}$ x 200 = _____ h) $\frac{7}{8}$ of 200 is _____

i) $\frac{9}{10}$ x 200 = _____ j) $\frac{24}{5}$ of 200 is _____

Make up two of your own.

k) _____ x 200 = _____ l) _____ of 200 is _____

2.

$\frac{8}{8}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{8}$
240						

a) $\frac{2}{3}$ of 240 = _____ b) $\frac{3}{4}$ x 240 is _____

c) $\frac{2}{5}$ of 240 = _____ d) $\frac{3}{5}$ x 240 is _____

e) $\frac{4}{5}$ of 240 = _____ f) $\frac{5}{6}$ x 240 is _____

g) $\frac{3}{8}$ of 240 = _____ h) $1\frac{5}{8}$ x 240 is _____

i) $\frac{7}{8}$ of 240 = _____ j) $\frac{5}{4}$ x 240 is _____

Make up two of your own.

k) _____ of 240 = _____ l) _____ x 240 is _____

Fraction Math Squares #1

1.

$\frac{1}{6}$	$\frac{1}{6}$
$\frac{3}{6}$	$\frac{1}{6}$

2.

$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$

$\frac{3}{4}$

3.

$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{8}$	$\frac{3}{8}$

4.

$\frac{3}{8}$	$\frac{3}{8}$
$\frac{5}{8}$	$\frac{7}{8}$

5.

$\frac{1}{10}$	$\frac{3}{10}$
$\frac{3}{10}$	

1

6.

$\frac{1}{2}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{4}$

7.

$\frac{1}{12}$	$\frac{5}{12}$
$\frac{1}{12}$	

$1\frac{5}{12}$

8.

$\frac{1}{12}$	
$\frac{11}{12}$	$\frac{5}{12}$

$1\frac{7}{12}$

9.

	$\frac{3}{4}$
$1\frac{1}{4}$	$\frac{1}{2}$

3

Fraction Math Squares # 2

1.

$\frac{1}{2}$	$\frac{1}{4}$
	$3\frac{1}{2}$

5

2.

$\frac{1}{8}$	
$2\frac{7}{8}$	$\frac{3}{4}$

6

3.

$\frac{1}{8}$	$\frac{1}{4}$
	$1\frac{3}{8}$

4

4.

$\frac{5}{6}$	$1\frac{1}{6}$
4	

$7\frac{1}{2}$

5.

$\frac{3}{4}$	$\frac{1}{2}$
$1\frac{3}{4}$	$\frac{1}{4}$

6.

$\frac{3}{8}$	
$1\frac{5}{8}$	$1\frac{3}{8}$

$5\frac{5}{8}$

7.

$2\frac{1}{6}$	$\frac{5}{6}$
$7\frac{1}{2}$	$\frac{1}{6}$

8.

$\frac{3}{8}$	
$1\frac{5}{8}$	$2\frac{1}{2}$

$5\frac{5}{8}$

9.

$\frac{3}{5}$	$\frac{1}{10}$
$\frac{1}{5}$	

$1\frac{7}{10}$

Fraction Math Squares #3

1.

$1\frac{1}{5}$	$1\frac{1}{5}$
$1\frac{1}{5}$	$1\frac{1}{5}$

2.

$2\frac{1}{3}$	$3\frac{1}{3}$
$4\frac{2}{3}$	$5\frac{2}{3}$

3.

	$4\frac{1}{3}$
$2\frac{1}{3}$	$6\frac{1}{3}$

$15\frac{2}{3}$

4.

$6\frac{1}{6}$	$1\frac{1}{6}$
$\frac{2}{3}$	

$9\frac{1}{3}$

5.

$\frac{1}{4}$	
$3\frac{1}{8}$	$2\frac{5}{8}$

$9\frac{1}{8}$

6.

$\frac{3}{8}$	$\frac{3}{4}$
	$\frac{1}{2}$

4

7.

$\frac{1}{8}$	$\frac{3}{4}$
	$\frac{3}{8}$

$3\frac{1}{2}$

8.

	$3\frac{3}{4}$
$1\frac{1}{2}$	$6\frac{3}{4}$

$17\frac{1}{4}$

9.

$5\frac{5}{8}$	$\frac{1}{4}$
$1\frac{1}{8}$	$1\frac{1}{2}$

Fraction Math Squares # 4

1.

$\frac{1}{8}$	$\frac{3}{8}$
	$\frac{5}{8}$

$1\frac{7}{8}$

2.

$\frac{2}{3}$	$\frac{5}{6}$
	$\frac{1}{2}$

$6\frac{1}{4}$

3.

$4\frac{1}{5}$	$3\frac{3}{5}$
$1\frac{2}{5}$	$\frac{7}{10}$

4.

	$1\frac{2}{3}$
$\frac{2}{3}$	$\frac{1}{6}$

$2\frac{5}{6}$

5.

$3\frac{1}{2}$	$3\frac{1}{8}$
$3\frac{1}{4}$	$2\frac{3}{8}$

6.

$7\frac{5}{12}$	
$\frac{1}{12}$	$\frac{1}{4}$

$9\frac{1}{8}$

7.

$1\frac{1}{3}$	
$3\frac{2}{3}$	$\frac{5}{6}$

$6\frac{1}{2}$

8.

$2\frac{1}{8}$	$3\frac{5}{8}$
$1\frac{1}{4}$	

$12\frac{1}{2}$

9.

$3\frac{5}{6}$	$2\frac{1}{3}$
	$4\frac{1}{3}$

$12\frac{1}{4}$

Fraction Math Squares #5

1.

$4\frac{3}{8}$	$2\frac{1}{4}$
$4\frac{1}{4}$	

$12\frac{1}{8}$

2.

$3\frac{1}{6}$	
$1\frac{1}{6}$	$2\frac{1}{6}$

$9\frac{5}{6}$

3.

$4\frac{3}{8}$	$1\frac{3}{4}$
$2\frac{7}{8}$	

10

4.

$2\frac{1}{6}$	
$5\frac{1}{6}$	$3\frac{5}{6}$

$14\frac{1}{2}$

5.

$4\frac{5}{6}$	
$8\frac{2}{5}$	$1\frac{1}{6}$

17

6.

$\frac{1}{3}$	$\frac{2}{3}$
$\frac{2}{3}$	

$4\frac{1}{2}$

7.

$7\frac{1}{8}$	$2\frac{3}{4}$
$1\frac{1}{2}$	$5\frac{5}{8}$

8.

$\frac{2}{5}$	$\frac{4}{5}$
$\frac{7}{10}$	

$2\frac{1}{5}$

9.

$\frac{2}{9}$	$1\frac{5}{9}$
	$\frac{2}{3}$

3

Fraction Math Squares # 6

1.

	$\frac{1}{3}$
$1\frac{2}{3}$	$7\frac{1}{4}$

10

2.

$\frac{7}{12}$	$\frac{1}{3}$
$\frac{3}{4}$	

3

3.

$1\frac{1}{2}$	$5\frac{1}{3}$
$6\frac{3}{4}$	

15

4.

$1\frac{1}{2}$	$\frac{5}{6}$
$1\frac{2}{3}$	

$6\frac{1}{3}$

5.

$\frac{1}{8}$	$\frac{3}{4}$
	$\frac{5}{8}$

3

6.

$3\frac{5}{6}$	
$4\frac{5}{12}$	$9\frac{1}{12}$

$19\frac{2}{3}$

7.

	$3\frac{1}{2}$
$4\frac{1}{2}$	$5\frac{1}{2}$

$13\frac{7}{8}$

8.

	$2\frac{1}{4}$
$3\frac{3}{4}$	$1\frac{1}{6}$

$9\frac{1}{2}$

9.

$3\frac{3}{8}$	
$7\frac{1}{2}$	$5\frac{1}{8}$

$18\frac{3}{4}$

Fraction Math Squares # 7

1.

$2\frac{1}{2}$	$3\frac{1}{4}$
	$8\frac{1}{4}$

$$\underline{17\frac{1}{8}}$$

2.

	$2\frac{3}{4}$
$1\frac{3}{4}$	$4\frac{3}{4}$

$$\underline{10\frac{1}{2}}$$

3.

$2\frac{2}{3}$	
$1\frac{5}{6}$	$4\frac{5}{6}$

$$\underline{12\frac{1}{2}}$$

4.

$8\frac{1}{9}$	$2\frac{1}{3}$
$4\frac{1}{3}$	$7\frac{7}{9}$

$$\underline{\hspace{2cm}}$$

5.

$2\frac{2}{5}$	$1\frac{1}{5}$
$7\frac{2}{5}$	$8\frac{3}{4}$

$$\underline{\hspace{2cm}}$$

6.

$1\frac{7}{8}$	$1\frac{5}{8}$
$\frac{1}{2}$	

$$\underline{24}$$

7.

$4\frac{1}{8}$	
$1\frac{1}{4}$	$2\frac{5}{8}$

$$\underline{17\frac{5}{6}}$$

8.

	$3\frac{3}{4}$
$5\frac{1}{2}$	$1\frac{1}{4}$

$$\underline{11}$$

9.

	$6\frac{1}{2}$
$4\frac{3}{4}$	$2\frac{1}{4}$

$$\underline{15}$$

Fraction Math Squares # 8

1.

$9\frac{1}{2}$	$4\frac{1}{8}$
$7\frac{3}{4}$	$2\frac{3}{8}$

2.

$5\frac{3}{4}$	$2\frac{1}{4}$
$1\frac{1}{4}$	

$11\frac{1}{2}$

3.

$1\frac{5}{12}$	$2\frac{5}{12}$
$3\frac{5}{12}$	

$8\frac{1}{4}$

4.

$5\frac{3}{10}$	$2\frac{1}{10}$
$1\frac{1}{5}$	

$10\frac{1}{2}$

5.

$6\frac{1}{2}$	
$3\frac{1}{8}$	$4\frac{1}{2}$

$14\frac{1}{4}$

6.

	$2\frac{1}{2}$
$3\frac{1}{2}$	4

$11\frac{5}{6}$

7.

	$1\frac{1}{2}$
$7\frac{2}{3}$	$4\frac{5}{6}$

$15\frac{1}{3}$

8.

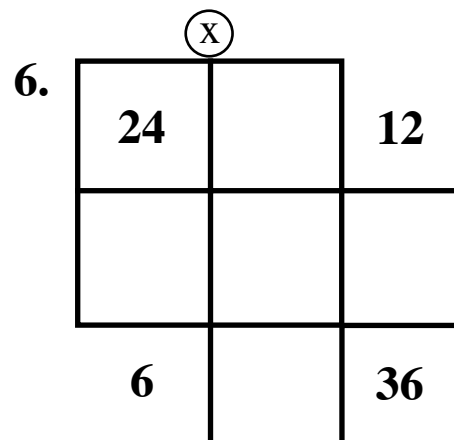
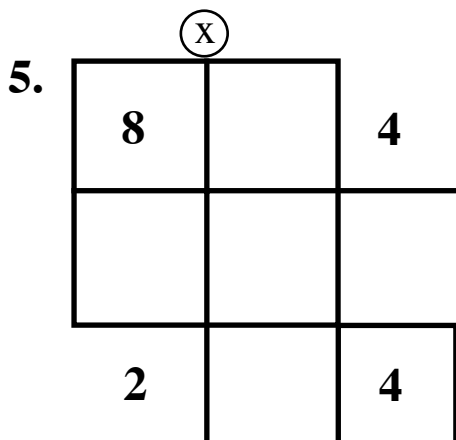
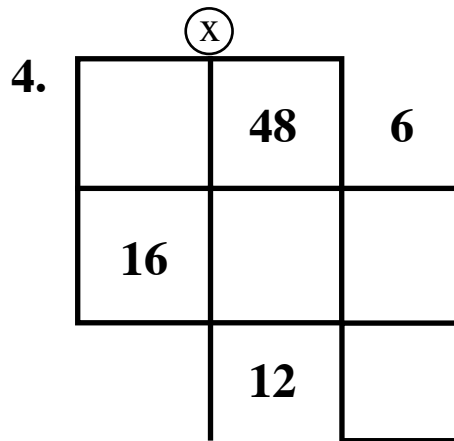
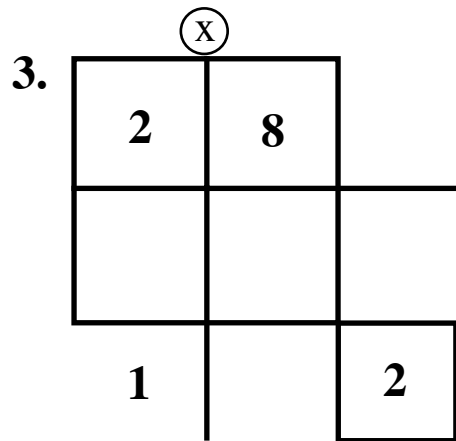
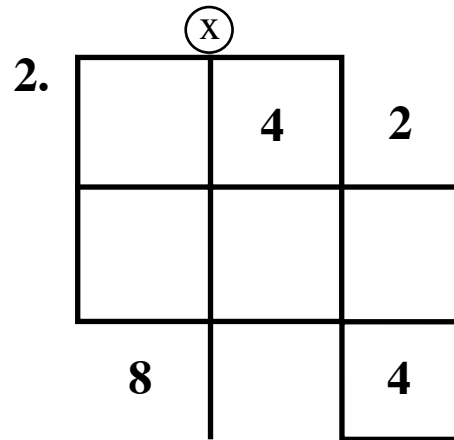
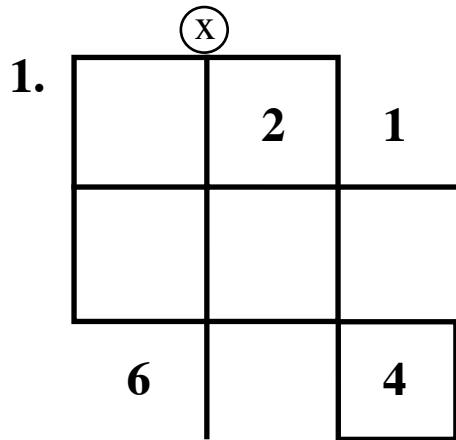
$4\frac{1}{4}$	$1\frac{3}{8}$
$3\frac{5}{8}$	

$9\frac{1}{2}$

9.

$4\frac{2}{9}$	$5\frac{8}{9}$
$3\frac{7}{9}$	$6\frac{5}{9}$

Fraction Two Ways # 1



Fraction Two Ways # 2

1. $\textcircled{\times}$

24		4
	6	72

2. $\textcircled{\times}$

12		6
	3	12

3. $\textcircled{\times}$

16		
		12
4		24

4. $\textcircled{\times}$

20	$\frac{1}{2}$	
		2
4		

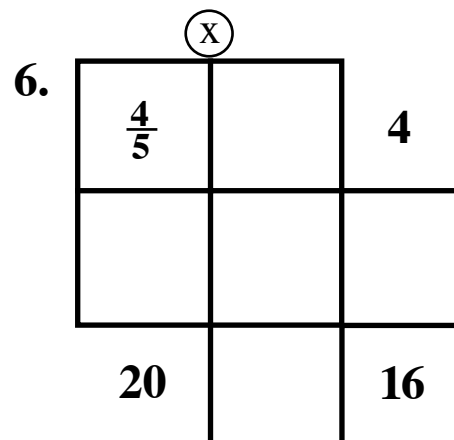
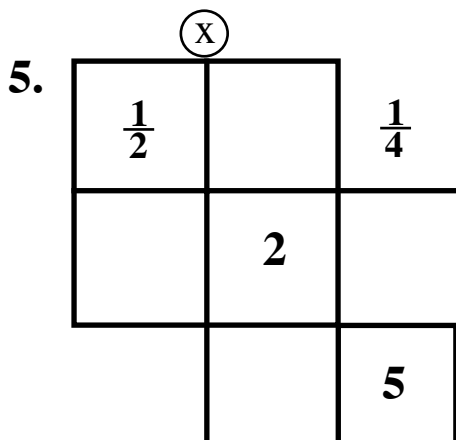
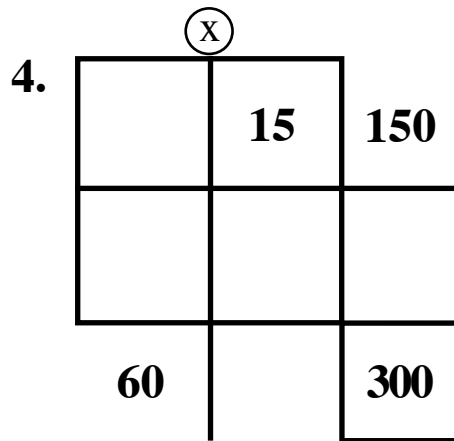
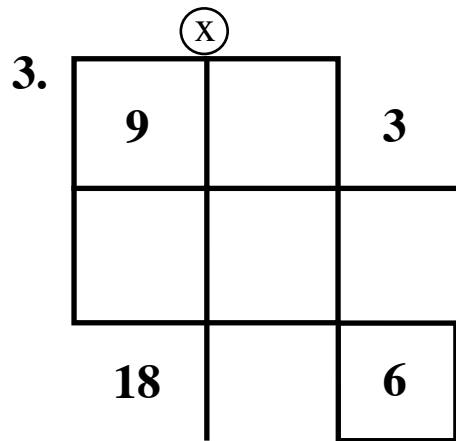
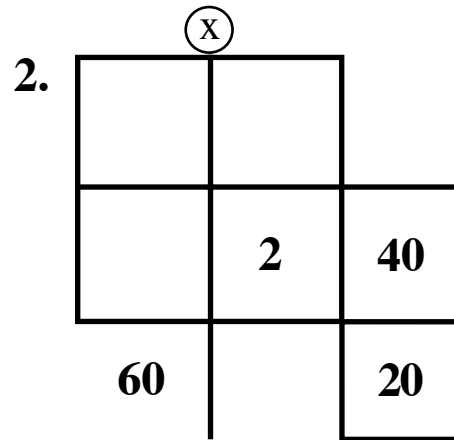
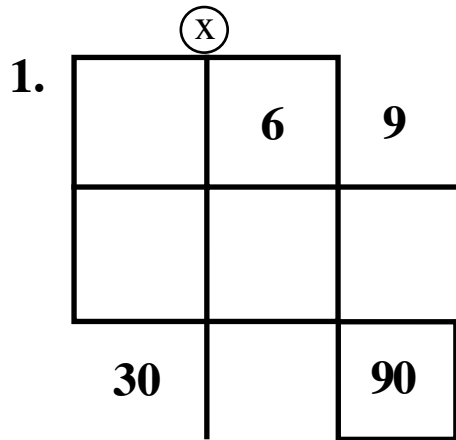
5. $\textcircled{\times}$

12	$\frac{1}{6}$	
$\frac{1}{4}$	8	

6. $\textcircled{\times}$

18	$\frac{1}{3}$	
	10	
3		

Fraction Two Ways # 3



Fraction Two Ways # 4

1. $\textcircled{\times}$

$4\frac{1}{2}$		9
18	$\frac{1}{2}$	

2. $\textcircled{\times}$

3	$2\frac{3}{4}$	
$\frac{1}{2}$		
	11	

3. $\textcircled{\times}$

	6	2
12		
	27	

4. $\textcircled{\times}$

$\frac{3}{4}$	10	
6	$\frac{1}{2}$	

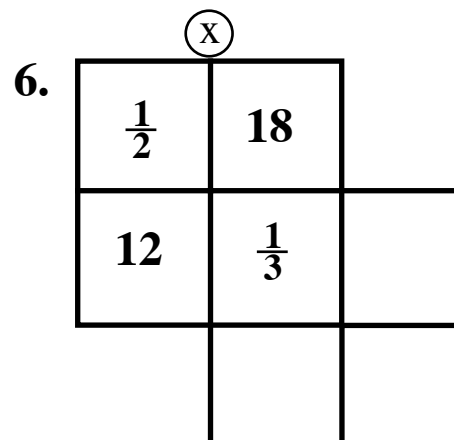
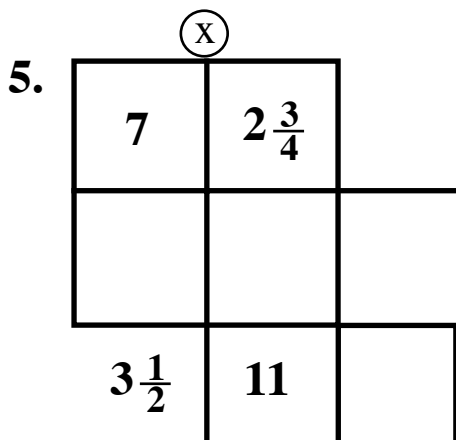
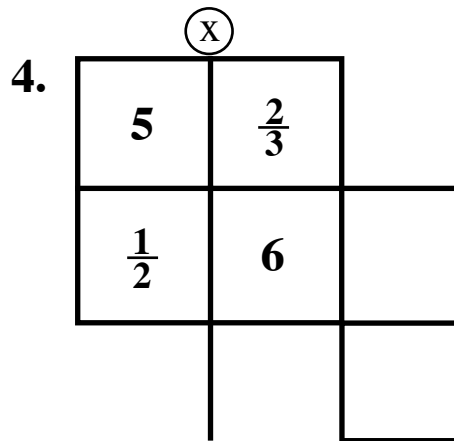
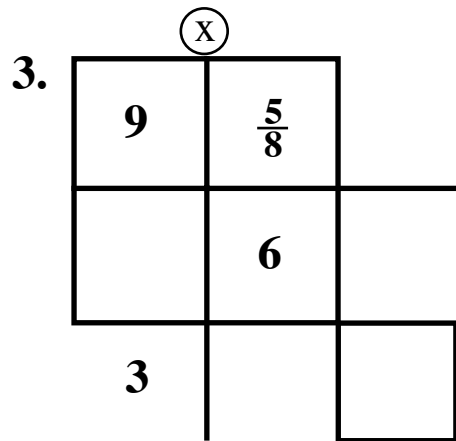
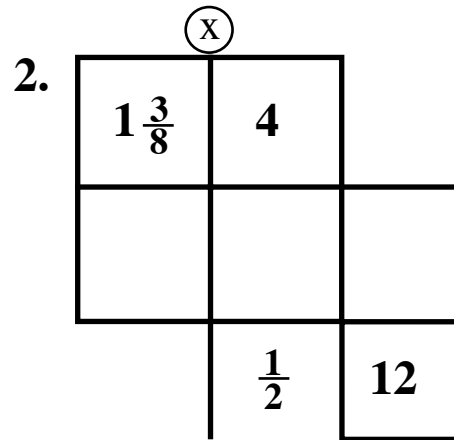
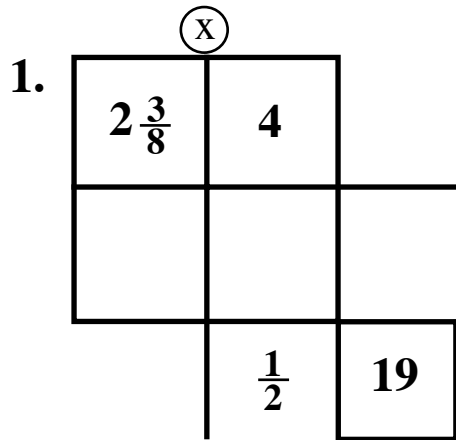
5. $\textcircled{\times}$

$\frac{1}{6}$		$\frac{2}{3}$
	$\frac{1}{2}$	
3		

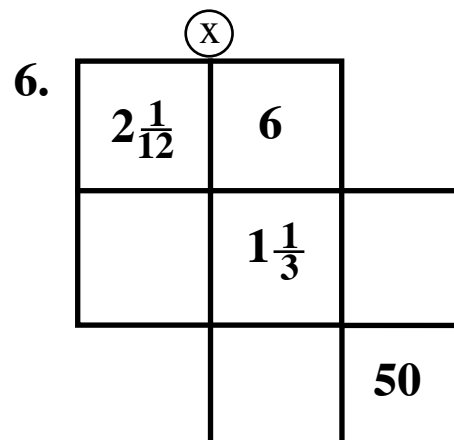
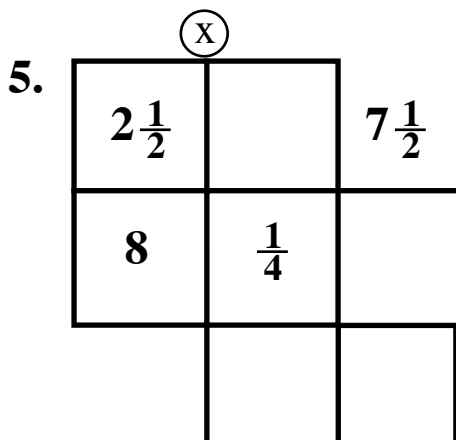
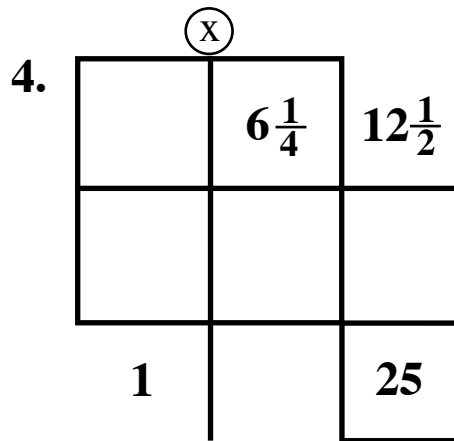
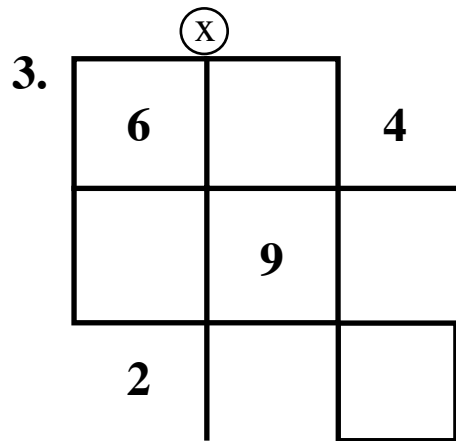
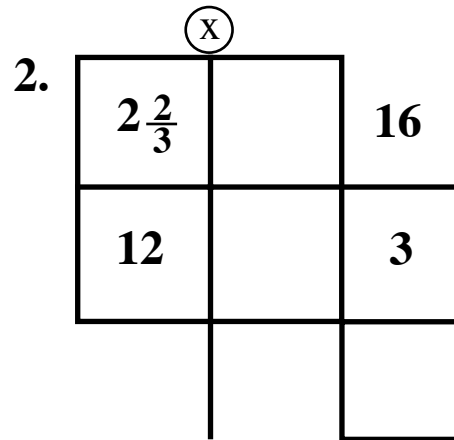
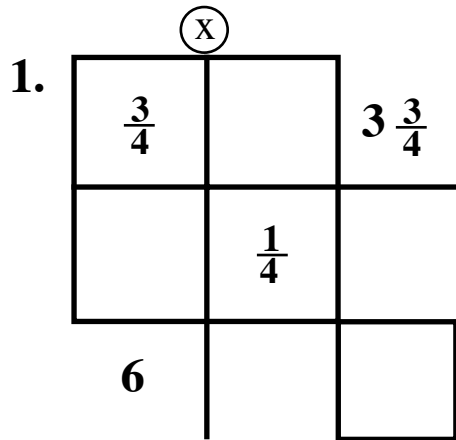
6. $\textcircled{\times}$

8		2
$2\frac{1}{2}$		$7\frac{1}{2}$

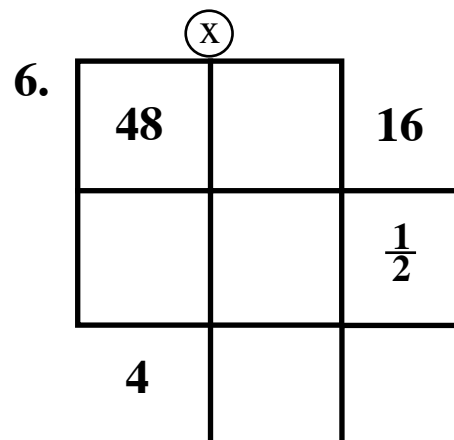
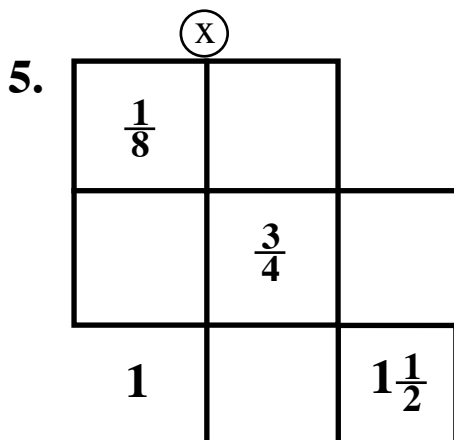
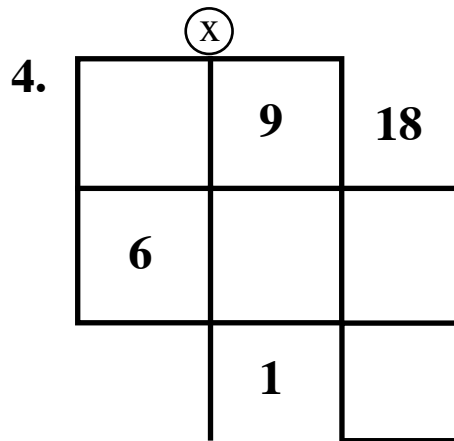
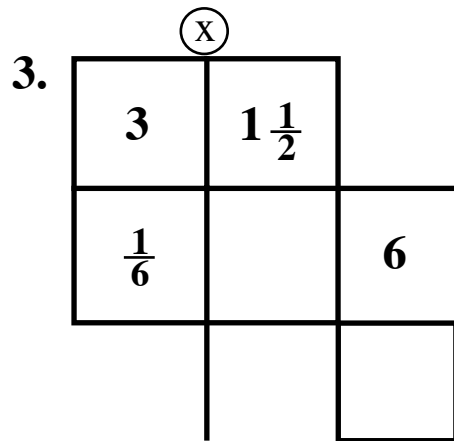
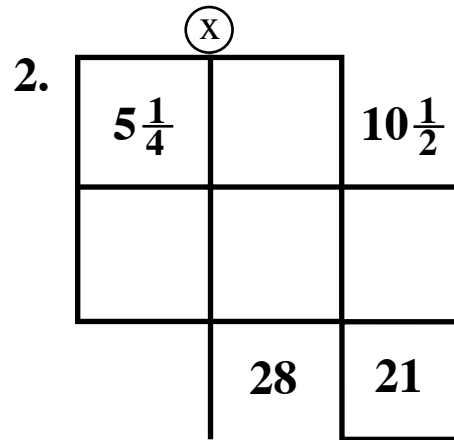
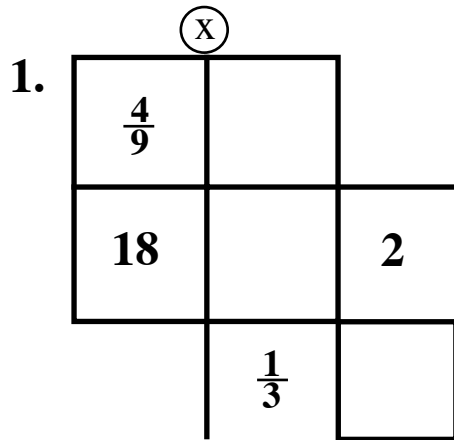
Fraction Two Ways # 5



Fraction Two Ways # 6



Fraction Two Ways # 7



Fraction Two Ways # 8

1. $\textcircled{\times}$

$\frac{1}{4}$		$2\frac{1}{4}$
12		1

2. $\textcircled{\times}$

5		$\frac{1}{2}$
	30	
2		

3. $\textcircled{\times}$

$\frac{1}{6}$		
	$\frac{1}{9}$	
$\frac{1}{2}$		1

4. $\textcircled{\times}$

	20	
40		4
2		

5. $\textcircled{\times}$

$\frac{3}{4}$		3
20		$2\frac{1}{2}$

6. $\textcircled{\times}$

15	$\frac{1}{2}$	
		3
9		

Fraction Two Ways # 9

1. $\textcircled{\times}$

$\frac{1}{4}$	8	
12	$\frac{1}{2}$	

2. $\textcircled{\times}$

5	$3\frac{1}{5}$	
	5	
$\frac{1}{4}$		

3. $\textcircled{\times}$

4	$1\frac{5}{6}$	
$\frac{1}{8}$		3

4. $\textcircled{\times}$

$\frac{3}{4}$	3	
8		4

5. $\textcircled{\times}$

7		$3\frac{1}{2}$
		2
$2\frac{1}{3}$		

6. $\textcircled{\times}$

$\frac{3}{4}$	10	
		4
$1\frac{1}{2}$		

Fraction Two Ways # 10

1. $\textcircled{\times}$

8		2
	64	
1		

2. $\textcircled{\times}$

9		6
	30	
3		

3. $\textcircled{\times}$

$\frac{1}{3}$	6	
12	$4\frac{1}{2}$	

4. $\textcircled{\times}$

$\frac{1}{3}$	22	
12	$\frac{1}{4}$	

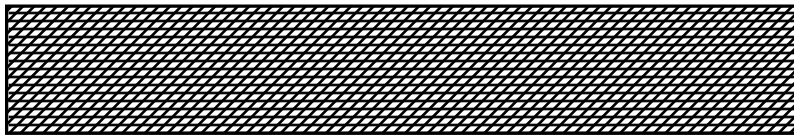
5. $\textcircled{\times}$

$\frac{1}{5}$		18
20	$\frac{1}{2}$	

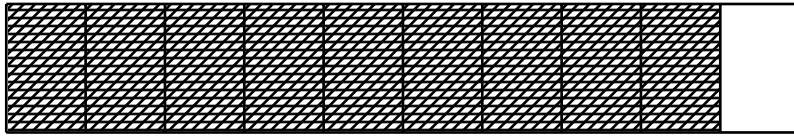
6. $\textcircled{\times}$

$4\frac{1}{2}$	4	
5		$1\frac{1}{4}$

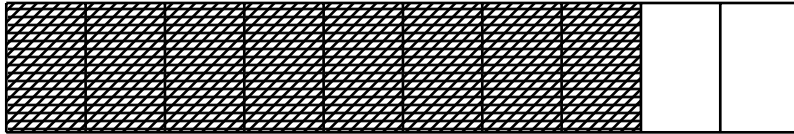
Decimal Bars



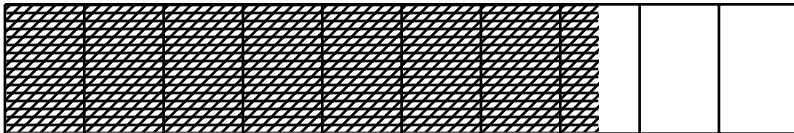
1



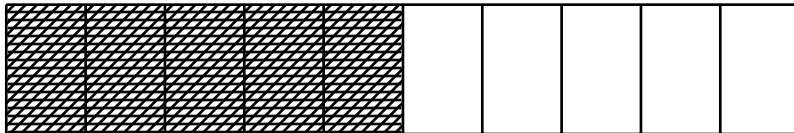
.9



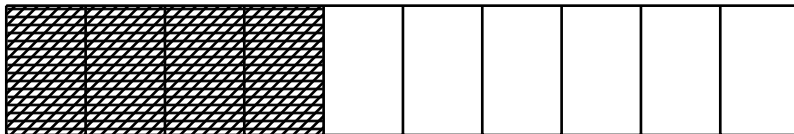
.8



.75



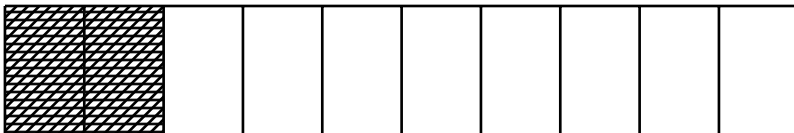
.5



.4



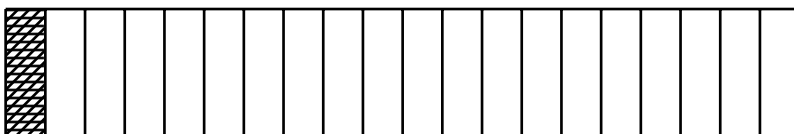
.3



.2

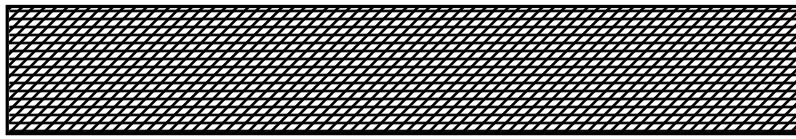


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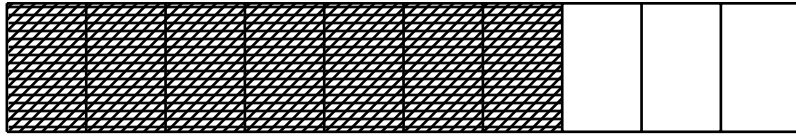


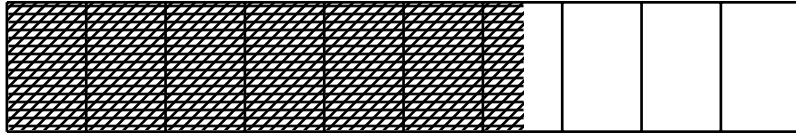
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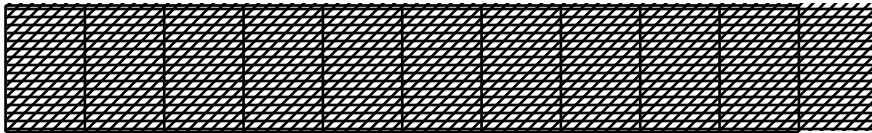
Decimal Bars



1

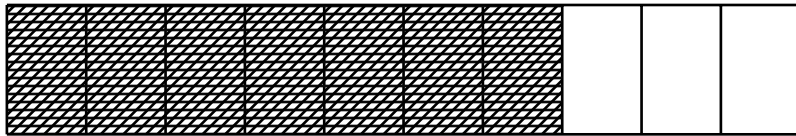




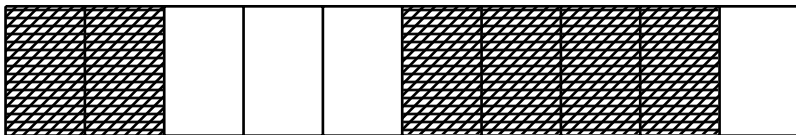


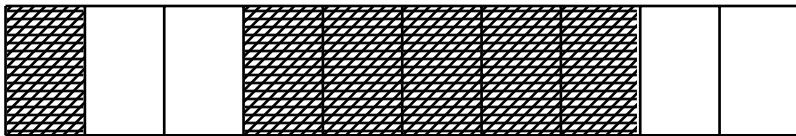
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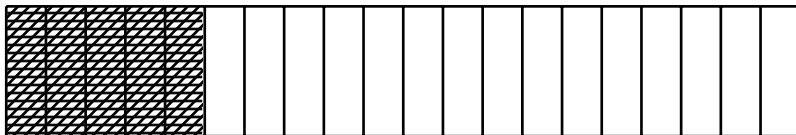




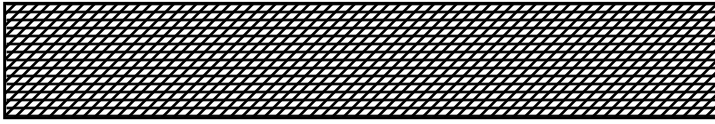




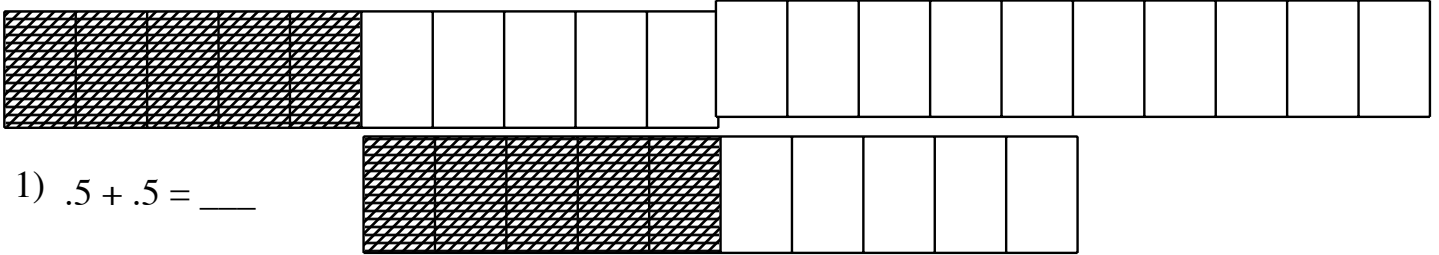




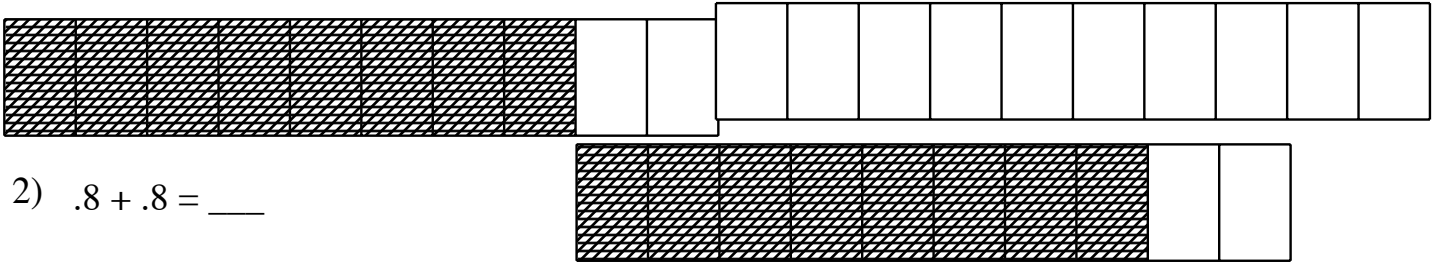
Decimal Bars



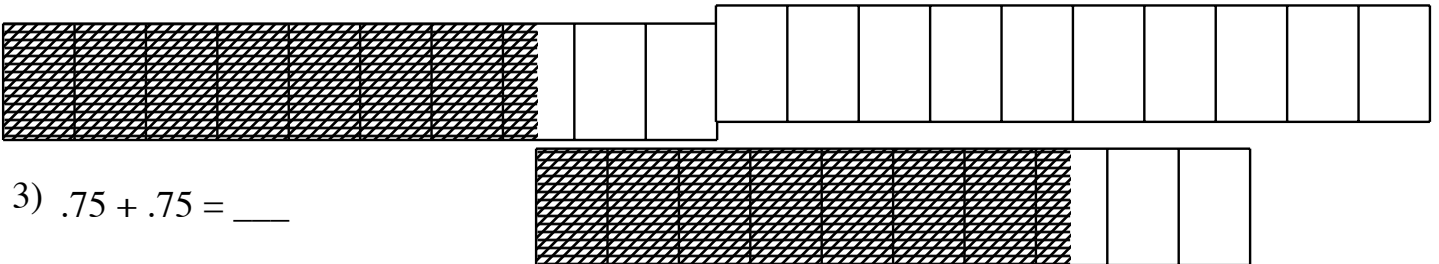
1



1) $.5 + .5 = \underline{\quad}$



2) $.8 + .8 = \underline{\quad}$



3) $.75 + .75 = \underline{\quad}$


4) $.2 + .8 = \underline{\quad}$

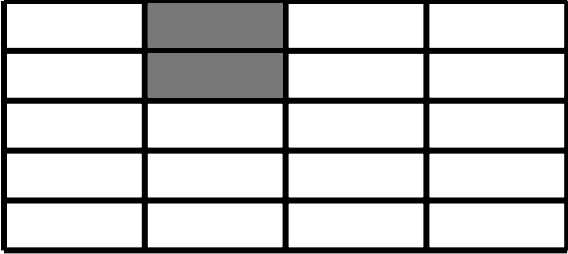
5) $.7 + .8 = \underline{\quad}$

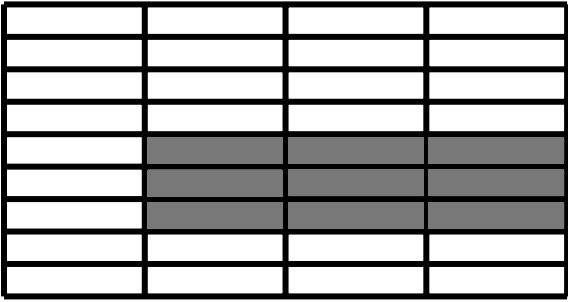
6) $.9 + .9 = \underline{\quad}$

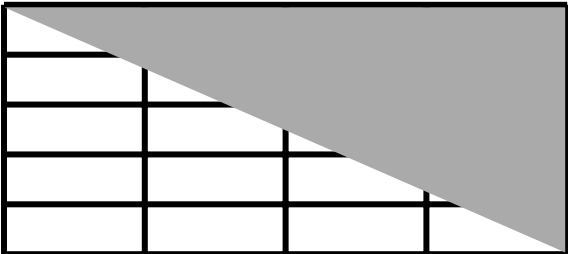
7) $1.2 + .9 = \underline{\quad}$

Decimals and Fractions # 1

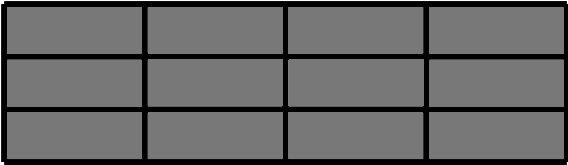
1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

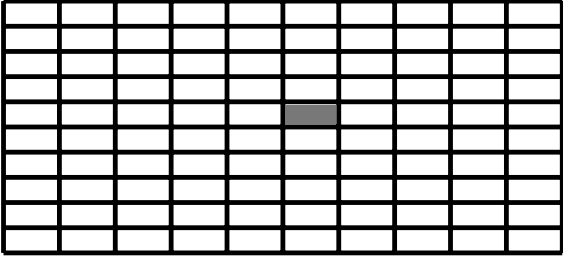
2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

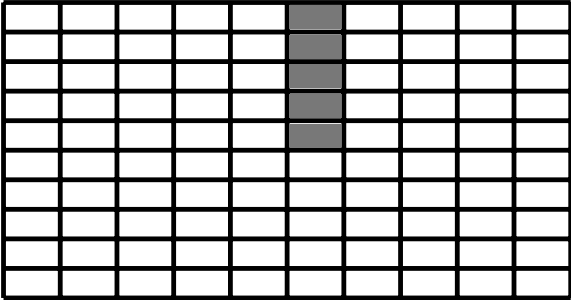
3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

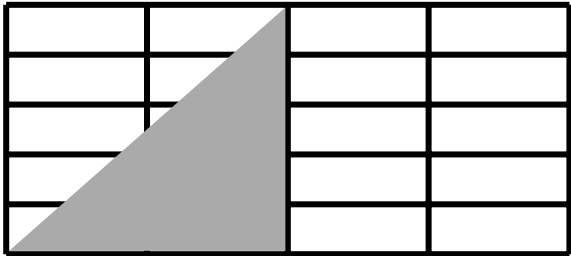
4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 2

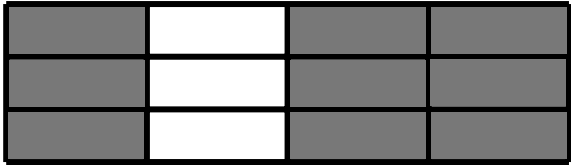
1. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

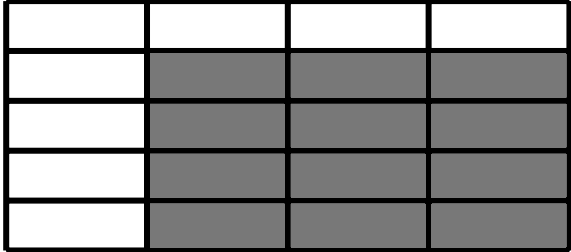
2. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

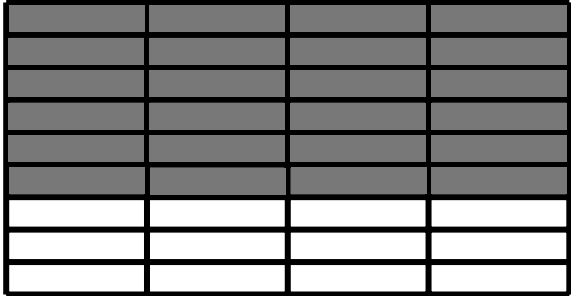
3. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

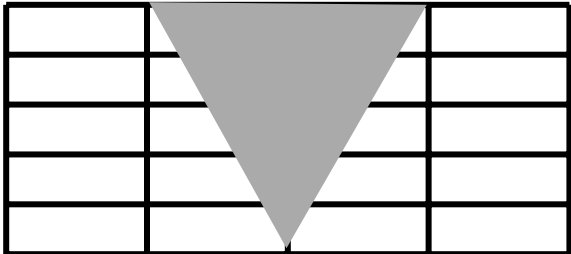
4. 
- a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 3


1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

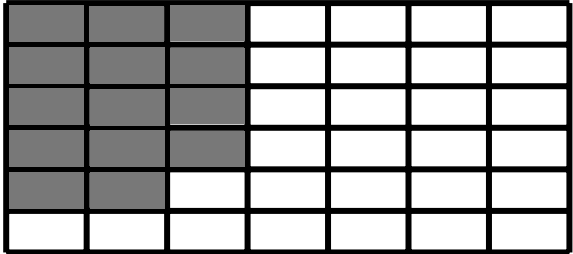
2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

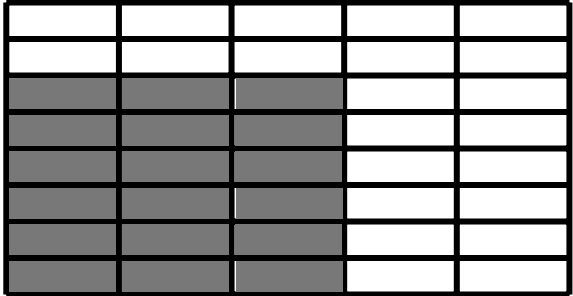
3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

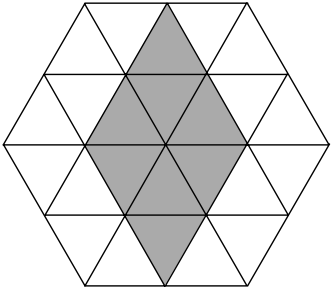
4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 4

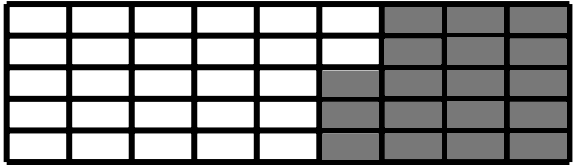
1. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

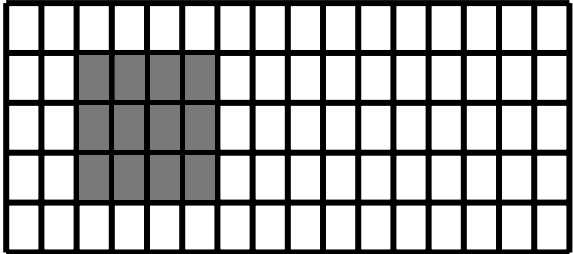
2. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

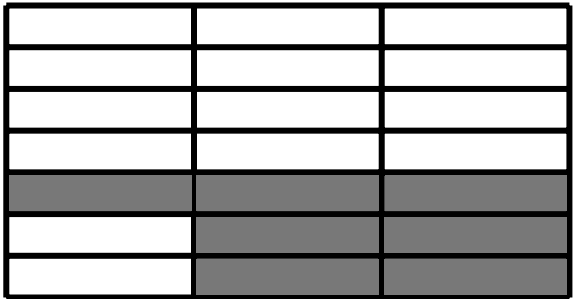
3. 
- a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

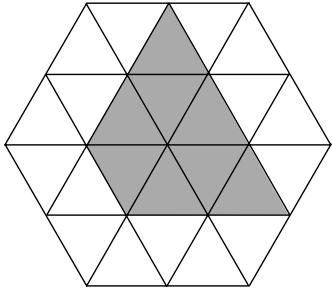
4. 
- a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 5

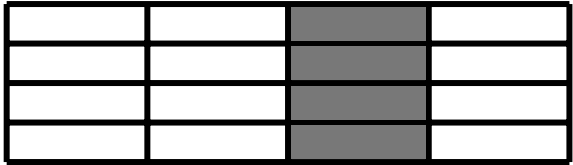
1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

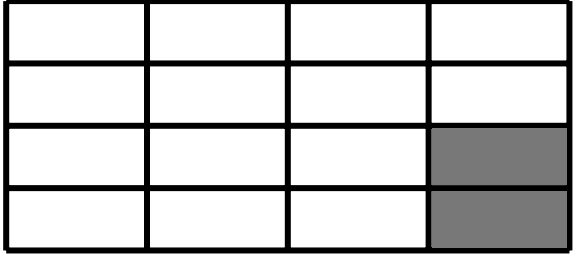
2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

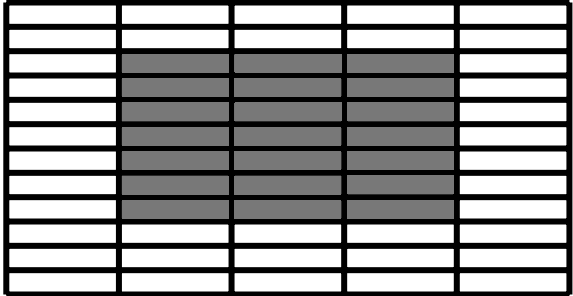
3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

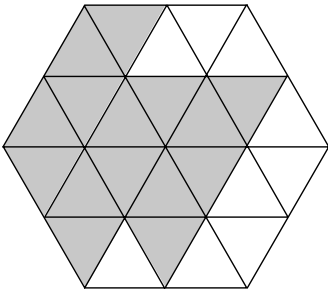
4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 6

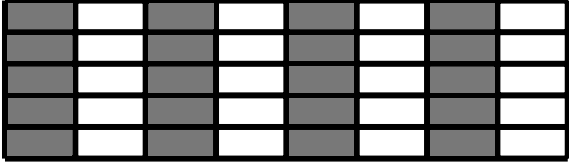
1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

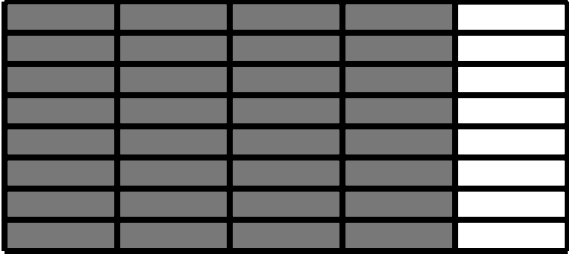
2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

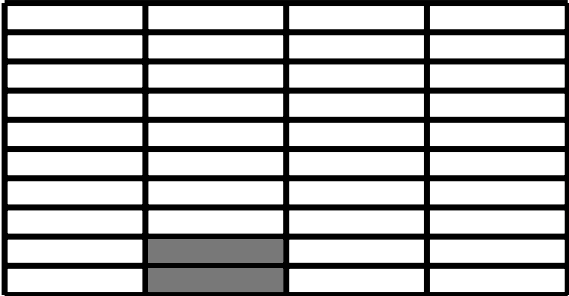
3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

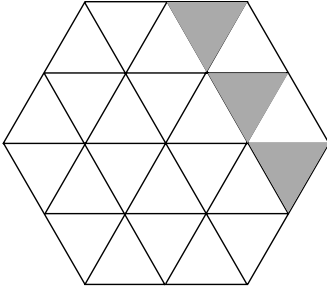
4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 7

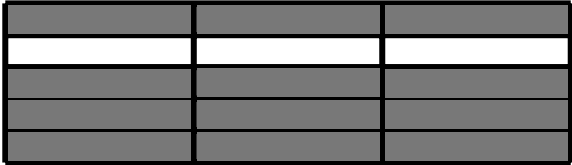
1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

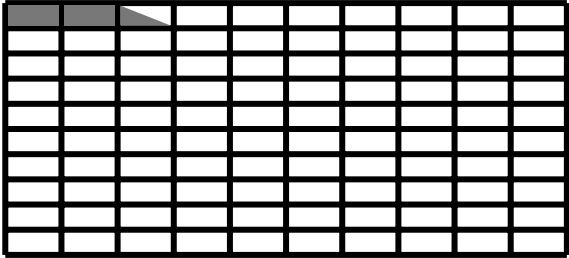
2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

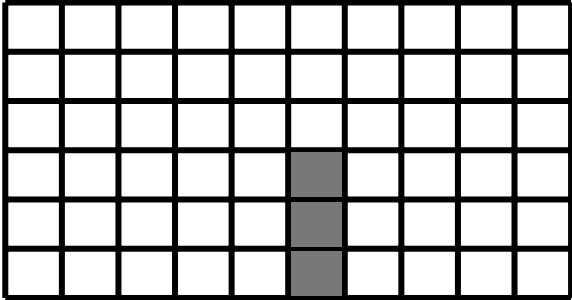
3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

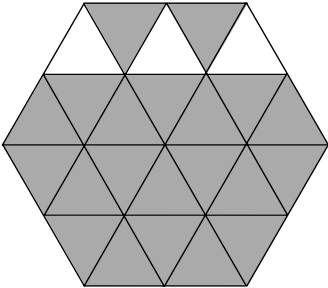
4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 8

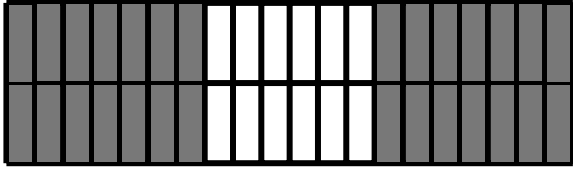
1.  a. What fraction of the rectangle is shaded? _____
b. What decimal part of the rectangle is shaded? _____
c. What decimal part of the rectangle is NOT shaded? _____

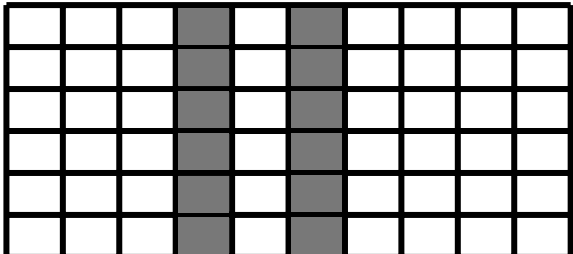
2.  a. What fraction of the rectangle is shaded? _____
b. What decimal part of the rectangle is shaded? _____
c. What decimal part of the rectangle is NOT shaded? _____

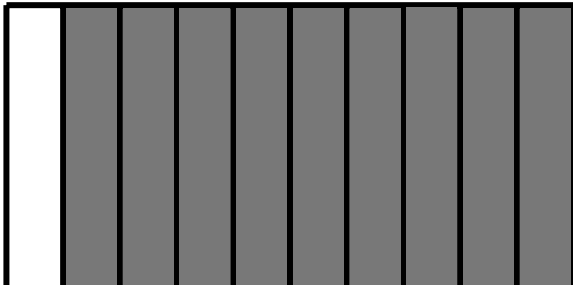
3.  a. What fraction of the rectangle is shaded? _____
b. What decimal part of the rectangle is shaded? _____
c. What decimal part of the rectangle is NOT shaded? _____

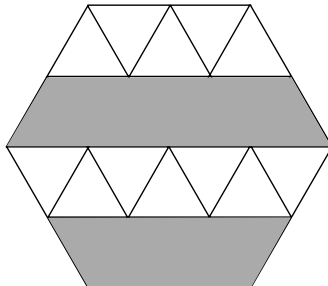
4.  a. What fraction of the figure is shaded? _____
b. What decimal part of the figure is shaded? _____
c. What decimal part of the figure is NOT shaded? _____

Decimals and Fractions # 9

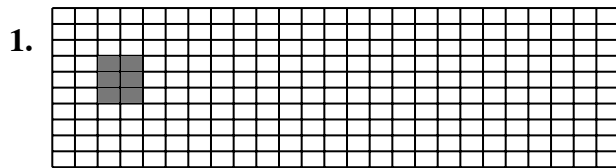
1.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

2.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

3.  a. What fraction of the rectangle is shaded? _____
- b. What decimal part of the rectangle is shaded? _____
- c. What decimal part of the rectangle is NOT shaded? _____

4.  a. What fraction of the figure is shaded? _____
- b. What decimal part of the figure is shaded? _____
- c. What decimal part of the figure is NOT shaded? _____

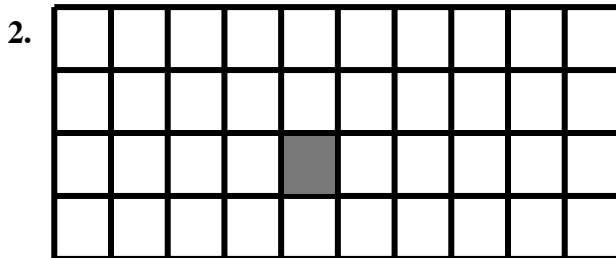
Decimals and Fractions # 10



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

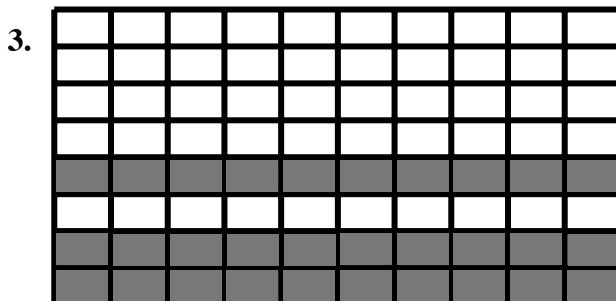
c. What decimal part of the rectangle is NOT shaded? _____



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

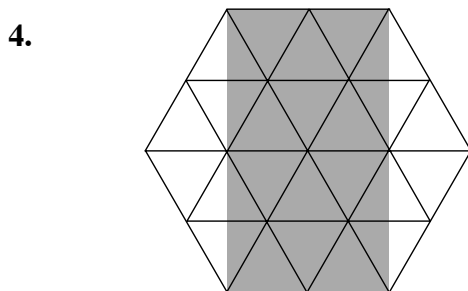
c. What decimal part of the rectangle is NOT shaded? _____



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

c. What decimal part of the rectangle is NOT shaded? _____

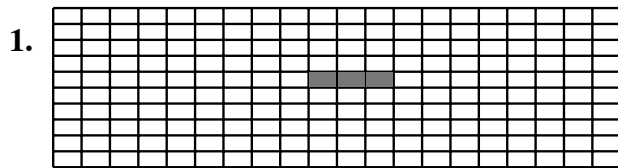


a. What fraction of the figure is shaded? _____

b. What decimal part of the figure is shaded? _____

c. What decimal part of the figure is NOT shaded? _____

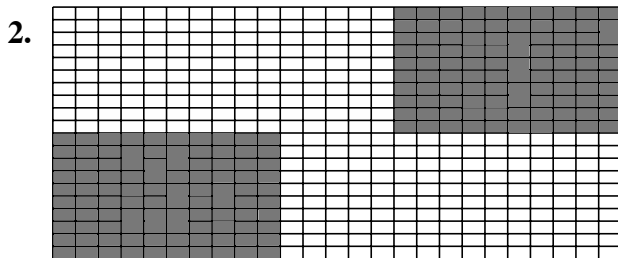
Decimals and Fractions # 11



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

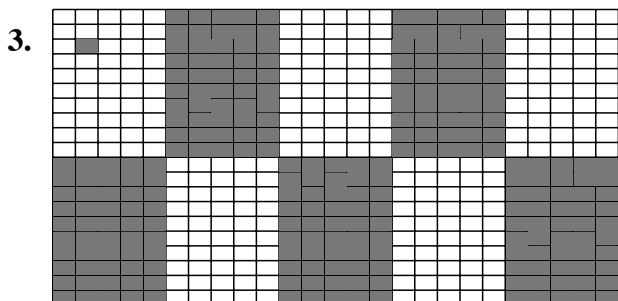
c. What decimal part of the rectangle is NOT shaded? _____



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

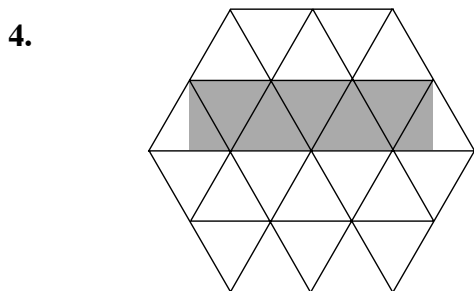
c. What decimal part of the rectangle is NOT shaded? _____



a. What fraction of the rectangle is shaded? _____

b. What decimal part of the rectangle is shaded? _____

c. What decimal part of the rectangle is NOT shaded? _____



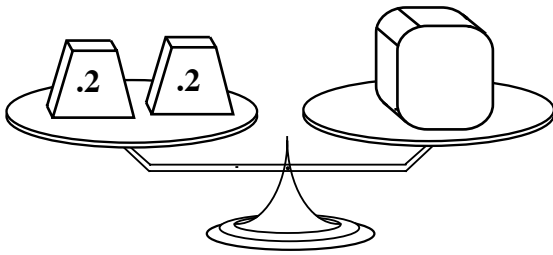
a. What fraction of the figure is shaded? _____

b. What decimal part of the figure is shaded? _____

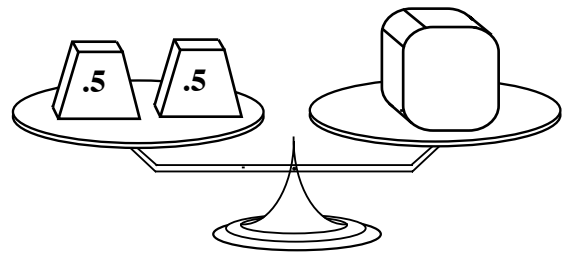
c. What decimal part of the figure is NOT shaded? _____

Decimal Balances #1

1.

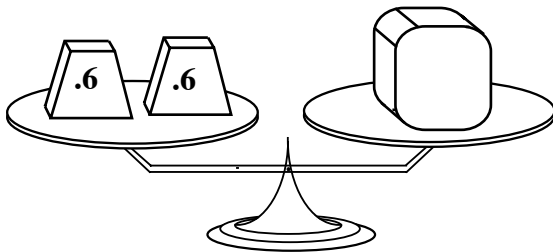


2.

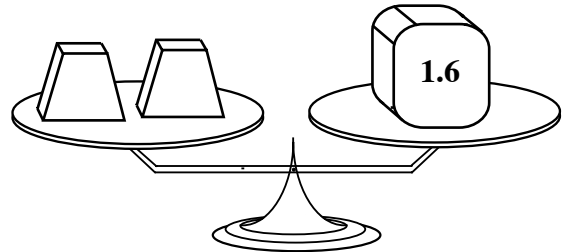


Boxes that are the same size and shape must have the same number in them.

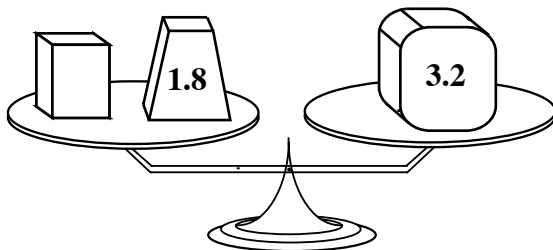
3.



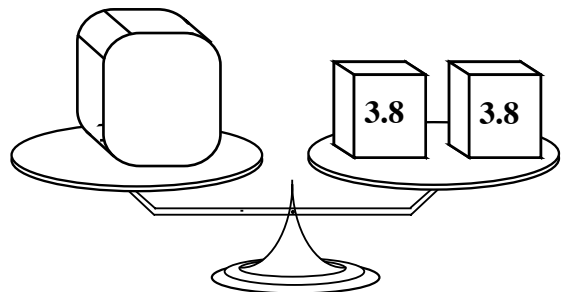
4.



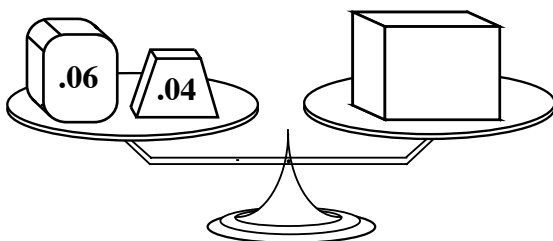
5.



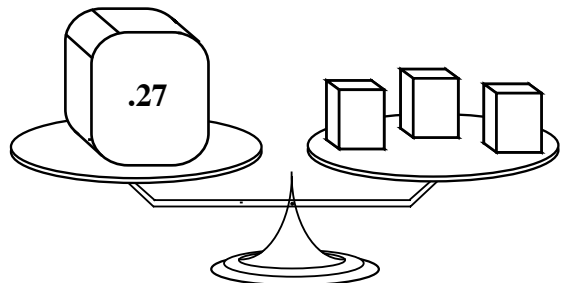
6.



7.

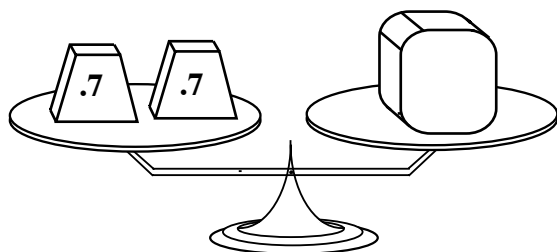


8.

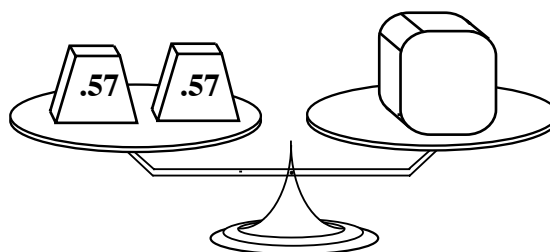


Decimal Balances #2

1.

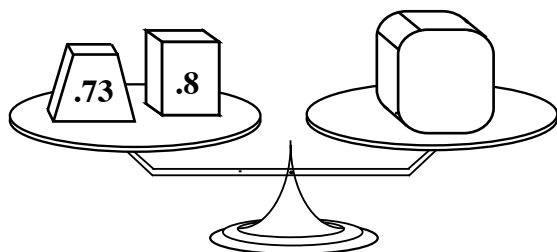


2.

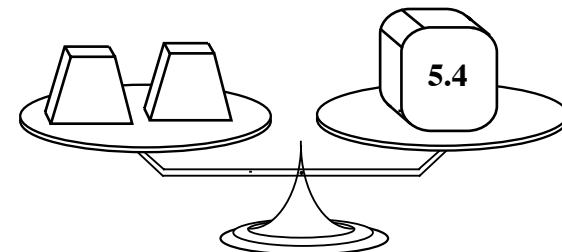


Boxes that are the same size and shape must have the same number in them.

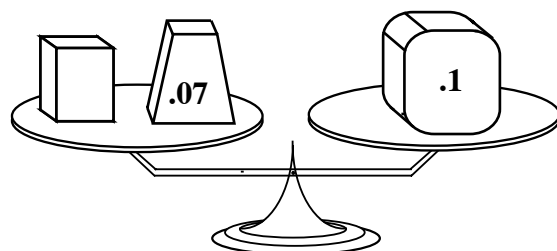
3.



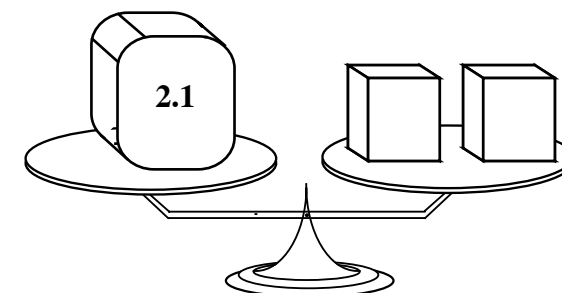
4.



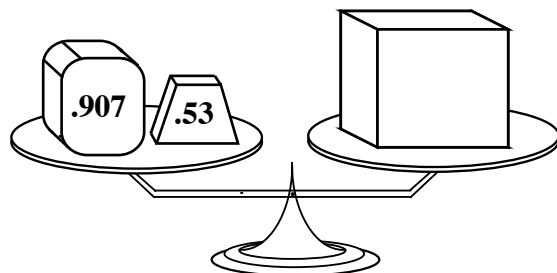
5.



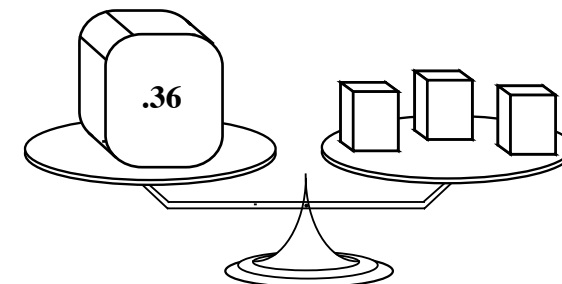
6.



7.

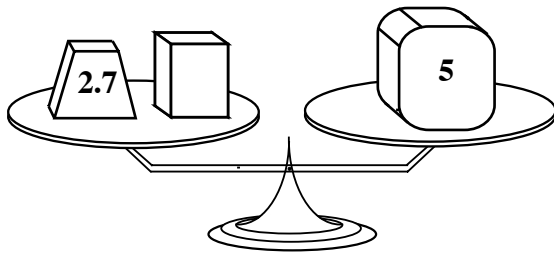


8.

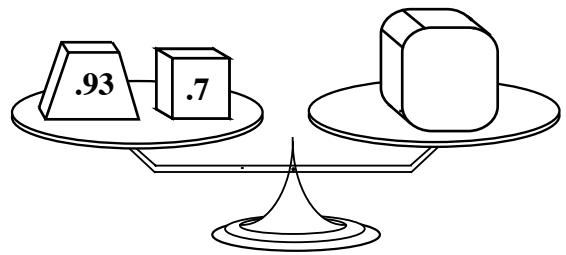


Decimal Balances #3

1.

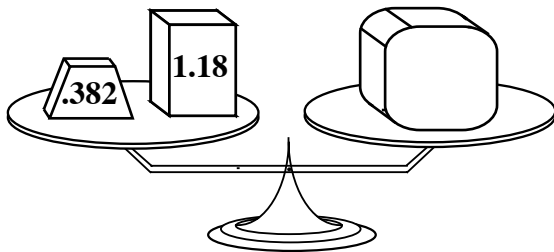


2.

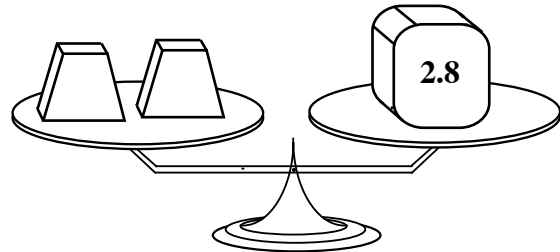


Boxes that are the same size and shape must have the same number in them.

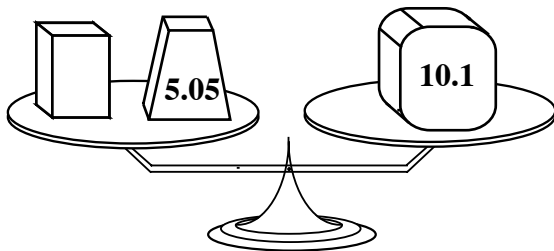
3.



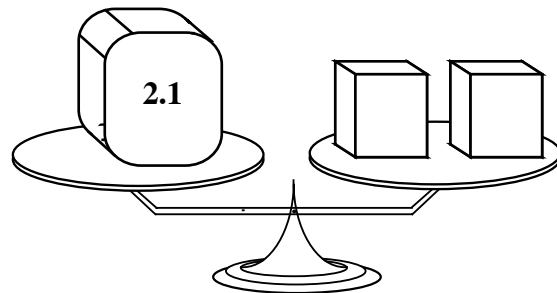
4.



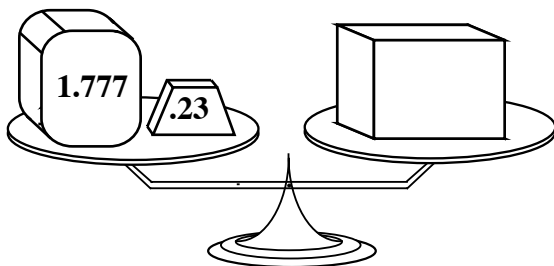
5.



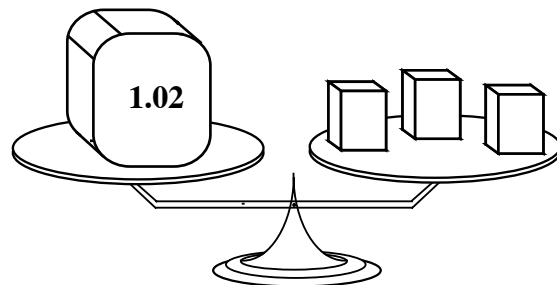
6.



7.

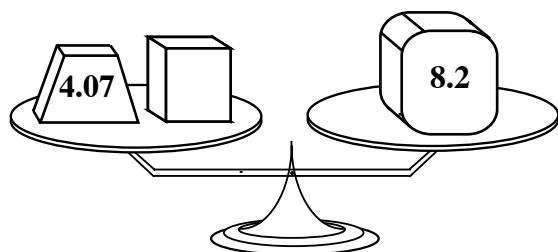


8.

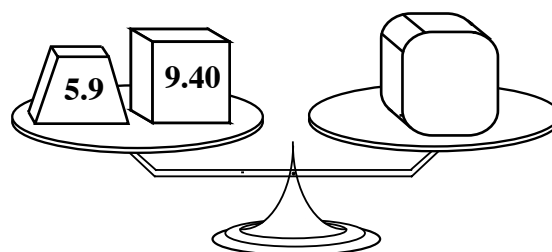


Decimal Balances #4

1.

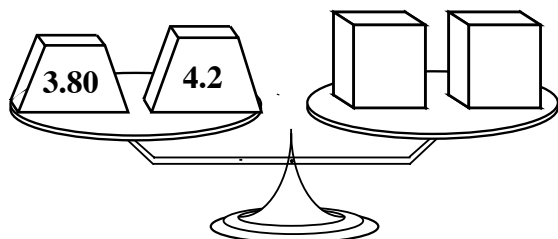


2.

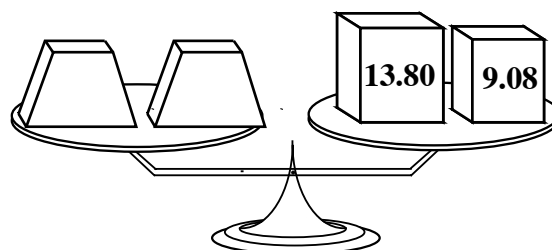


Boxes that are the same size and shape must have the same number in them.

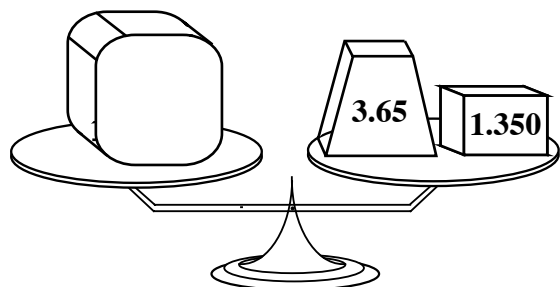
3.



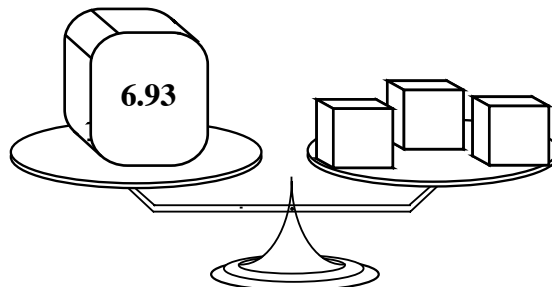
4.



5.



6.



7. Pedro and Zita had just enough money to buy two movie tickets. Pedro had \$4.72 and Zita had \$6.18. How much did one ticket cost?

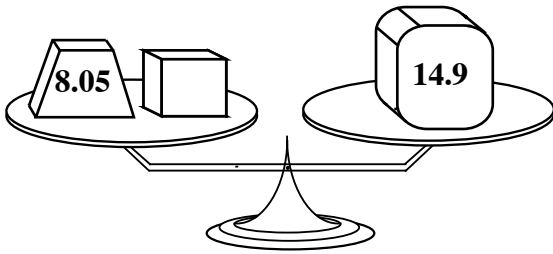
8. $7.49 + 2.6 =$

9. $20 - 15.020 =$

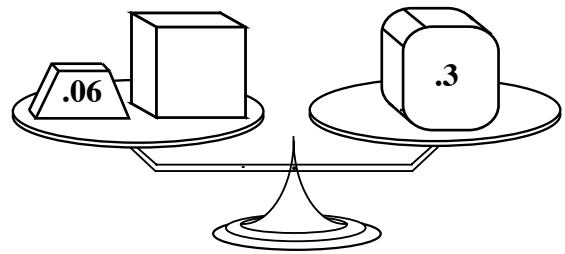
Decimal Balances #5

#1

1.

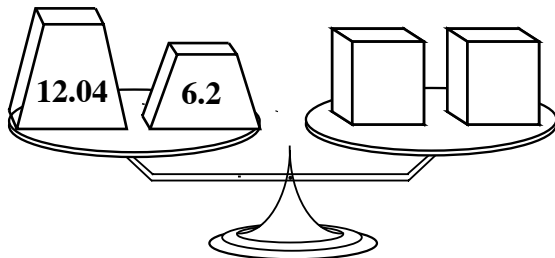


2.

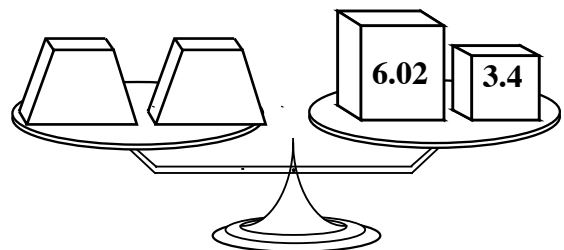


Boxes that are the same size and shape must have the same number in them.

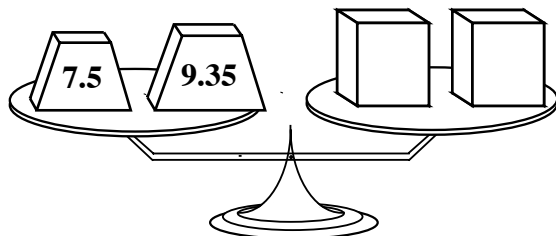
3.



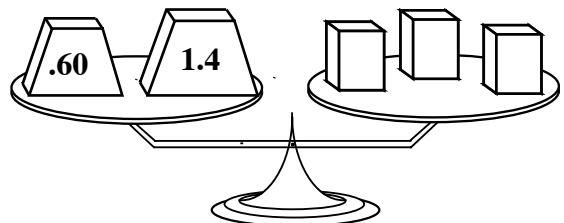
4.



5.



6.



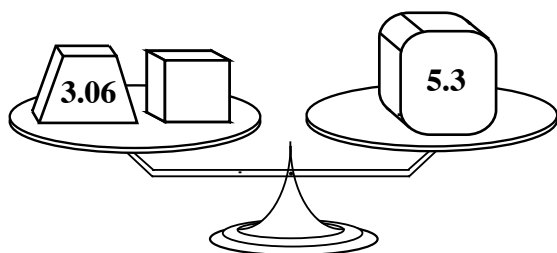
7. The heights of three girls are: Tanya 1.73 meters, Linda 1.57 meters, and Catalina 1.5 meters. What is the average height of the girls?

8. $6.105 + .9 =$

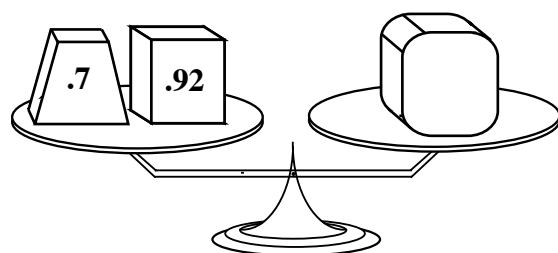
9. $17 - 8.07 =$

Decimal Balances #6

1.

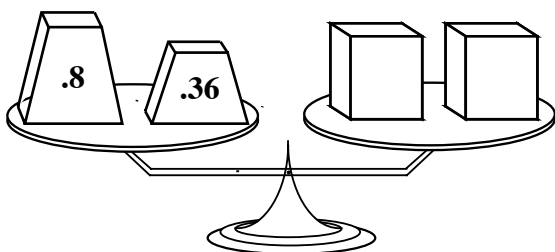


2.

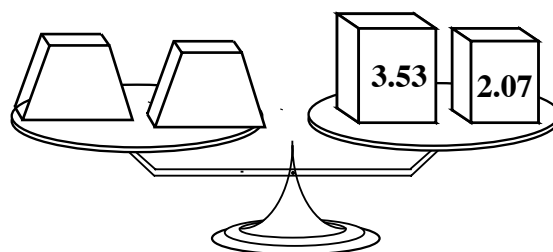


Boxes that are the same size and shape must have the same number in them.

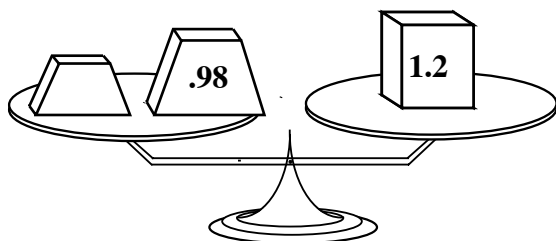
3.



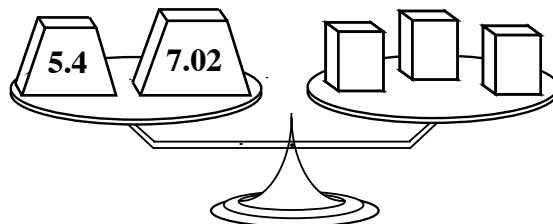
4.



5.



6.



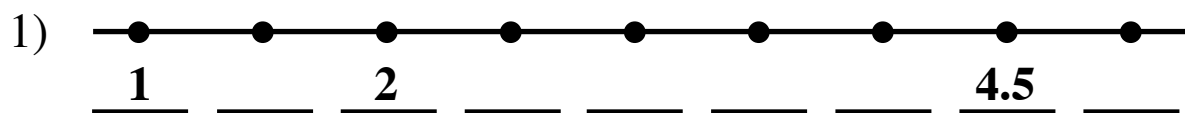
7. Pat had \$5.60, Sal had \$3.92, and Wan had \$4.08. They had just enough money to buy two pizzas. How much did one pizza cost?

8. $.206 + .84 =$

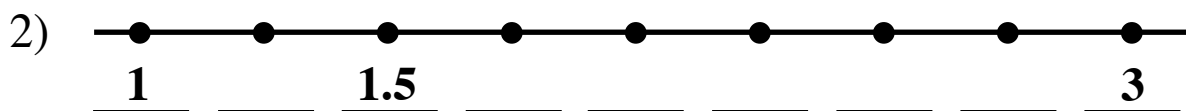
9. $12.01 - 4.5$

Decimal Sequence #1

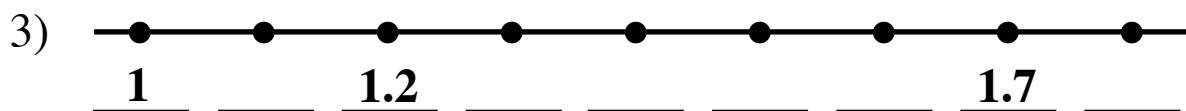
Name each point on the line with a decimal.



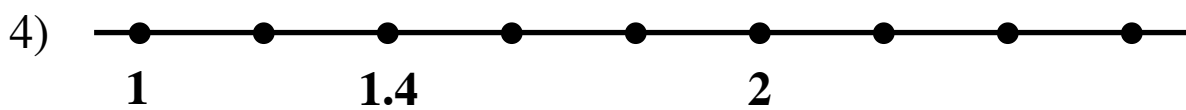
$\Delta =$ _____ Decimal word name = _____



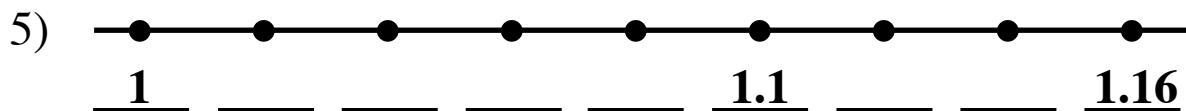
$\Delta =$ _____ Decimal word name = _____



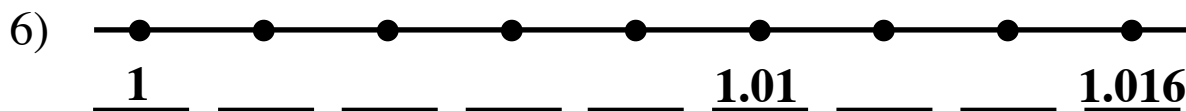
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



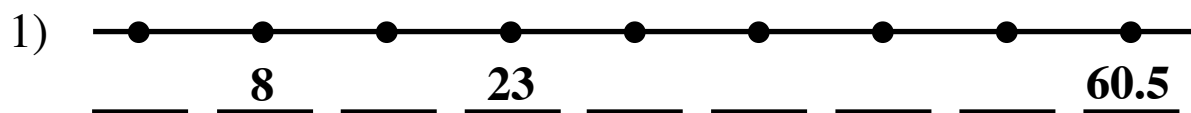
$\Delta =$ _____ Decimal word name = _____



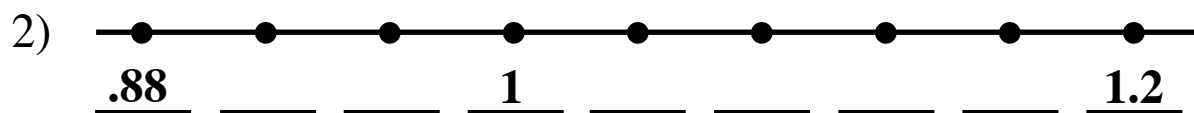
$\Delta =$ _____ Decimal word name = _____

Decimal Sequence #2

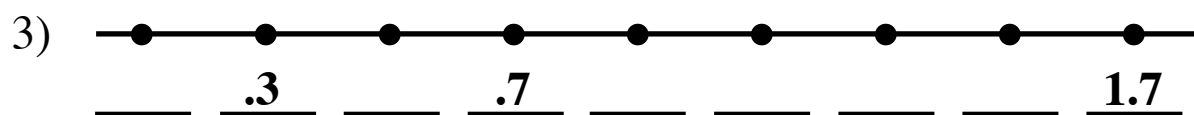
Name each point on the line with a decimal.



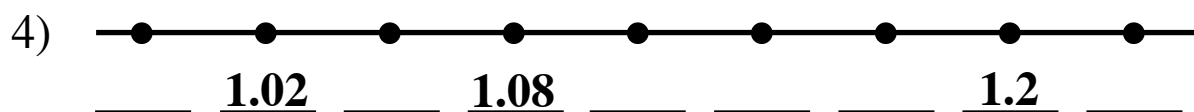
$\Delta =$ _____ Decimal word name = _____



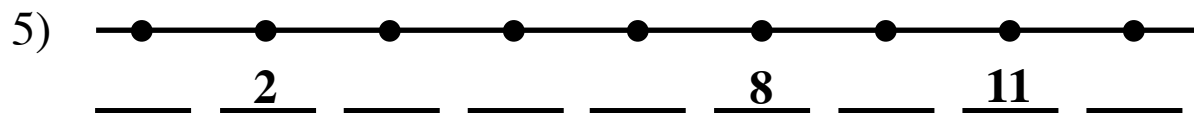
$\Delta =$ _____ Decimal word name = _____



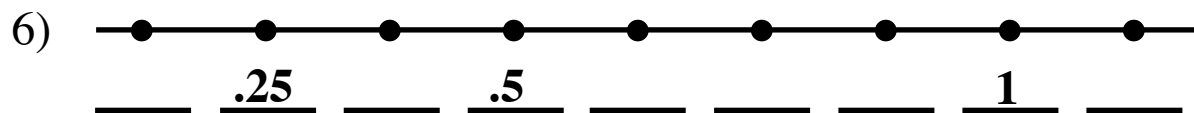
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



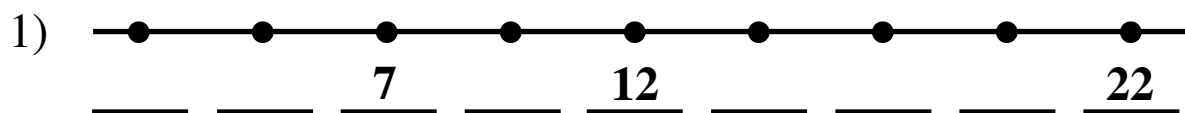
$\Delta =$ _____ Decimal word name = _____



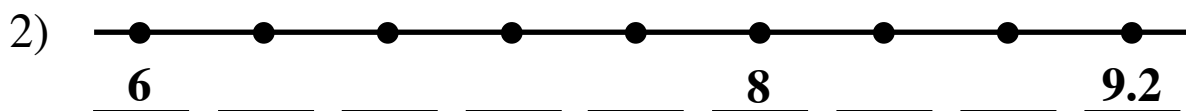
$\Delta =$ _____ Decimal word name = _____

Decimal Sequence # 3

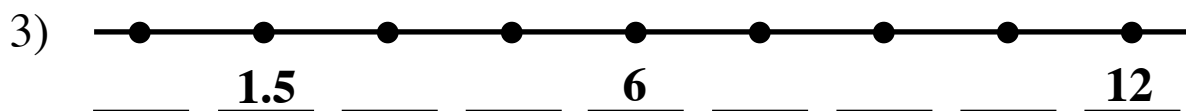
Name each point on the line with a decimal.



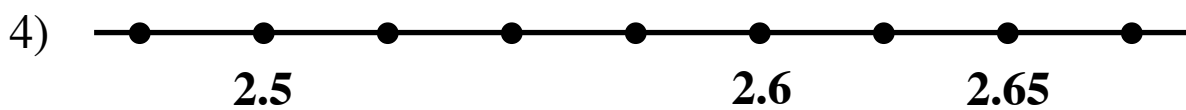
$\Delta =$ _____ Decimal word name = _____



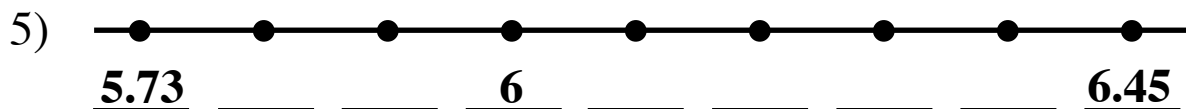
$\Delta =$ _____ Decimal word name = _____



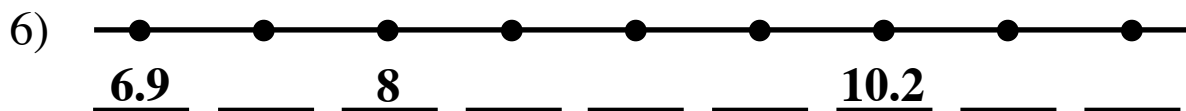
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



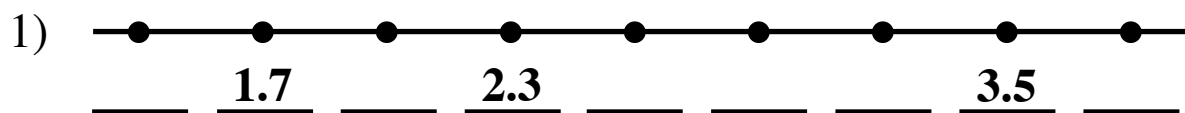
$\Delta =$ _____ Decimal word name = _____



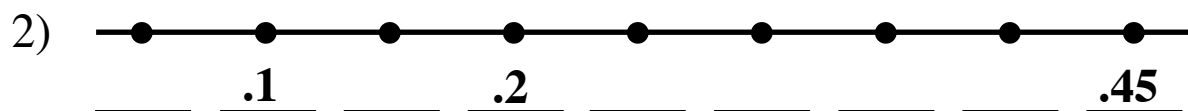
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Decimal Sequence # 4

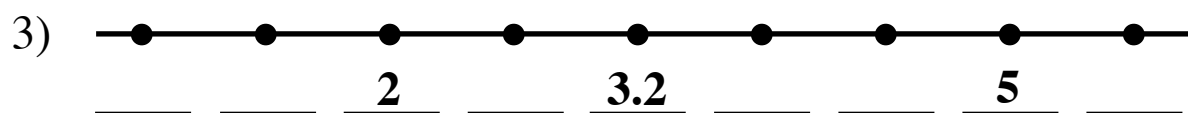
Name each point on the line with a decimal.



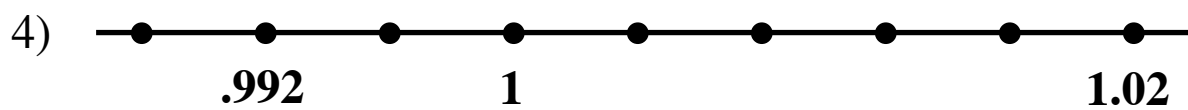
$\Delta =$ _____ Decimal word name = _____



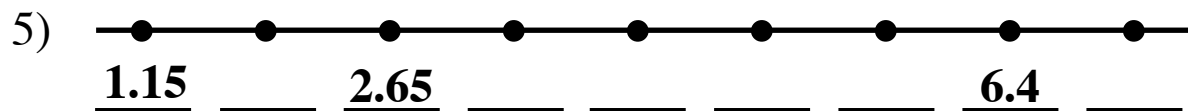
$\Delta =$ _____ Decimal word name = _____



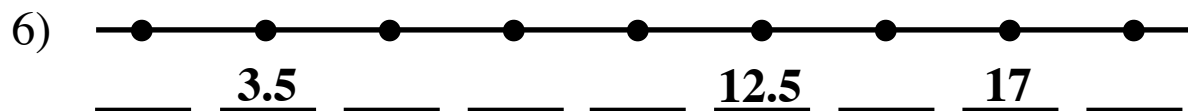
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



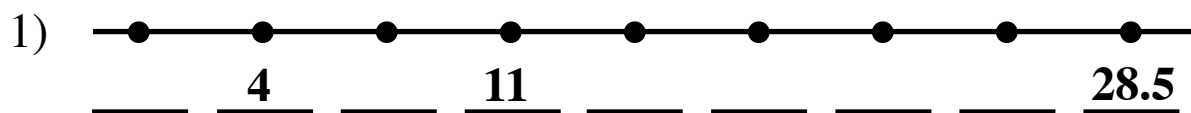
$\Delta =$ _____ Decimal word name = _____



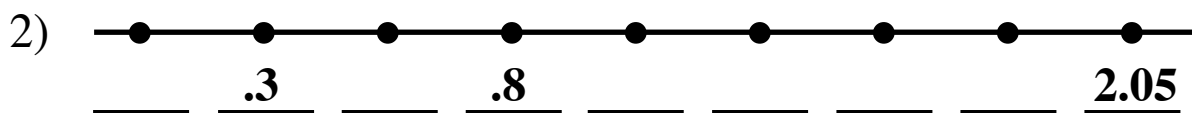
$\Delta =$ _____ Decimal word name = _____

Decimal Sequence # 5

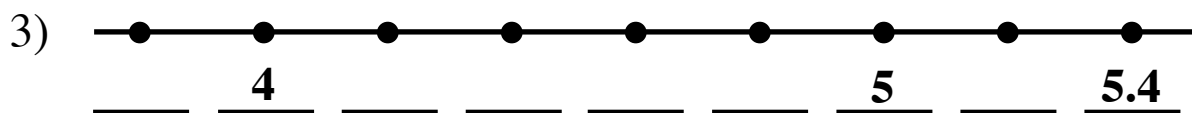
Name each point on the line with a decimal.



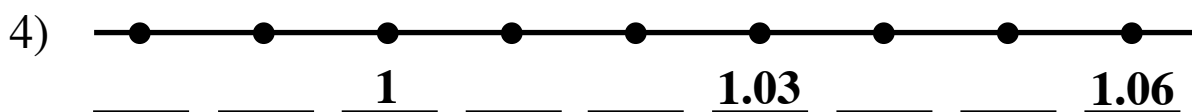
$\Delta =$ _____ Decimal word name = _____



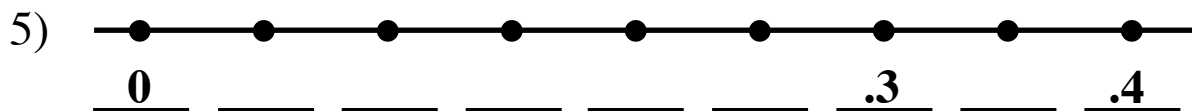
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



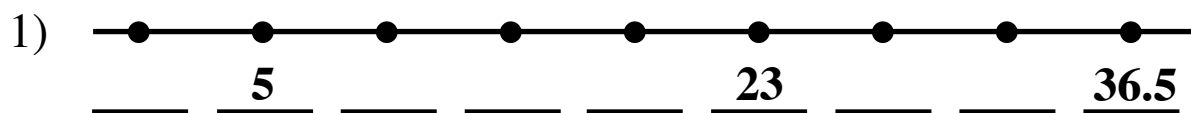
$\Delta =$ _____ Decimal word name = _____



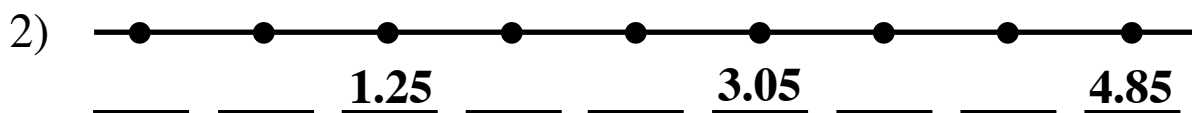
$\Delta =$ _____ Decimal word name = _____

Decimal Sequence # 6

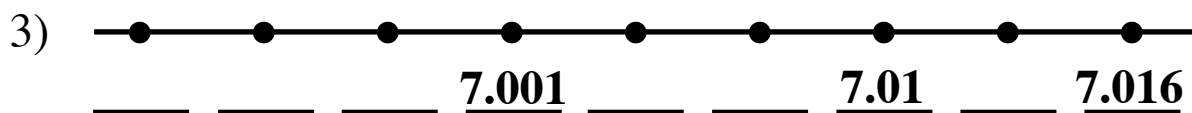
Name each point on the line with a decimal.



$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



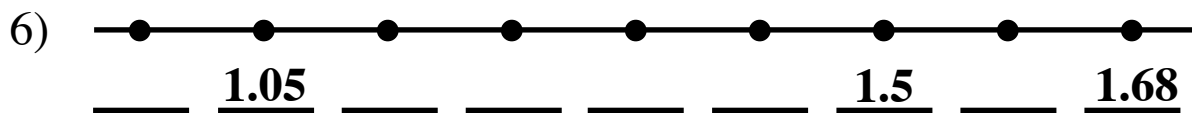
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



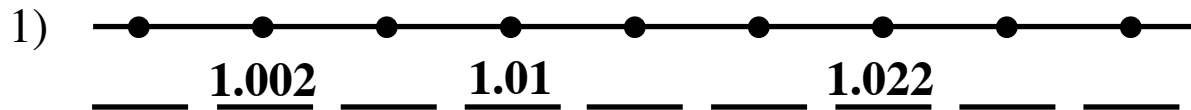
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____

Decimal Sequence # 7

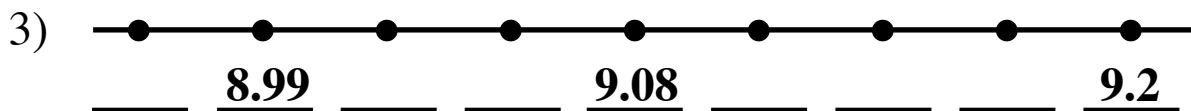
Name each point on the line with a decimal.



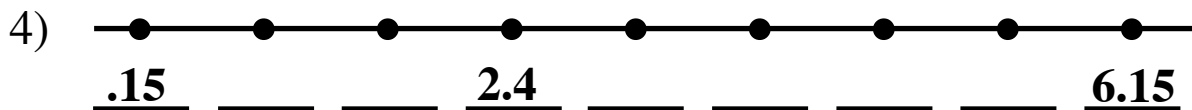
$\Delta =$ _____ Decimal word name = _____



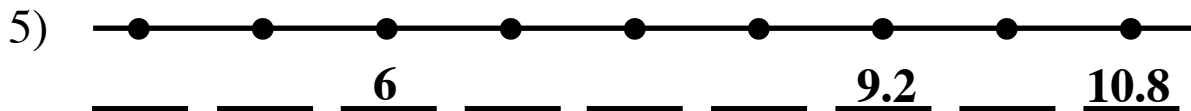
$\Delta =$ _____ Decimal word name = _____



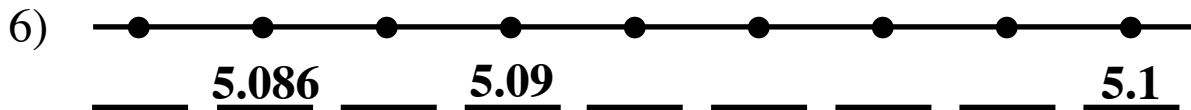
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



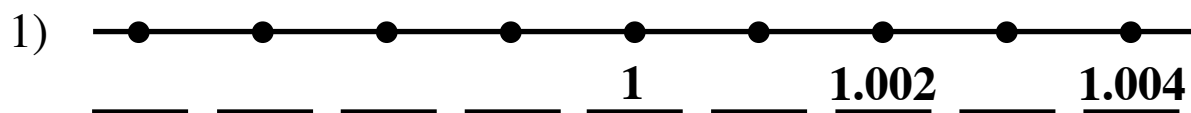
$\Delta =$ _____ Decimal word name = _____



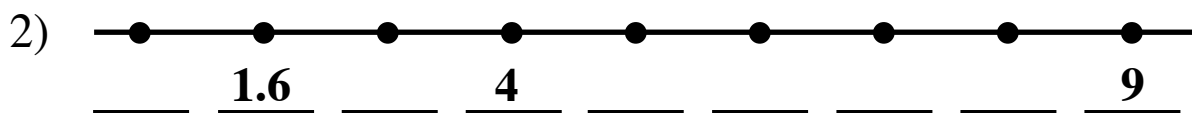
$\Delta =$ _____ Decimal word name = _____

Decimal Sequence # 8

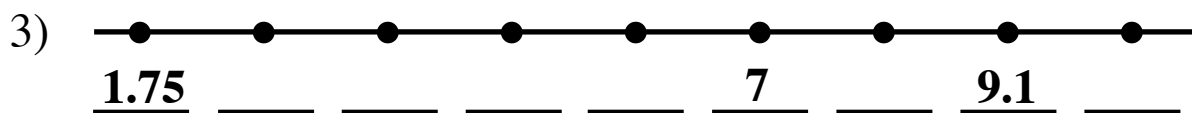
Name each point on the line with a decimal.



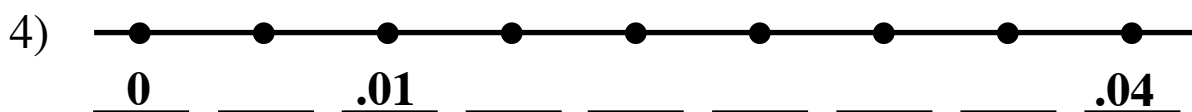
$\Delta =$ _____ Decimal word name = _____



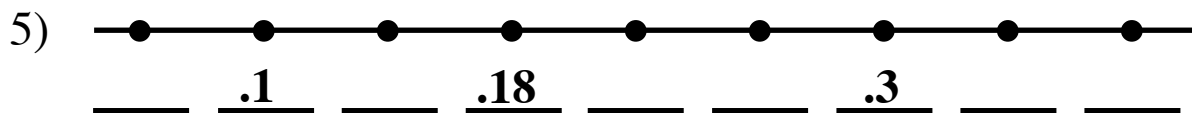
$\Delta =$ _____ Decimal word name = _____



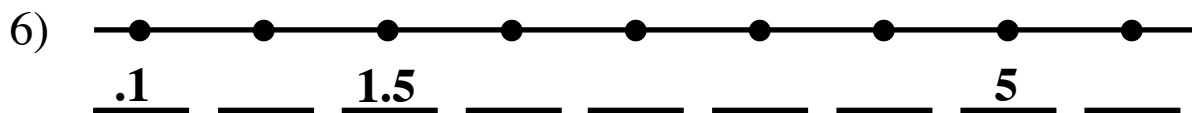
$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____



$\Delta =$ _____ Decimal word name = _____

Decimal Benchmark #1

1.

1	.5	.25	.1	.05	.01	.001
1000						

a) .6 x 1000 = _____ b) .95 of 1000 is _____

c) .75 x 1000 = _____ d) .90 of 1000 is _____

e) .51 x 1000 = _____ f) .501 of 1000 is _____

g) .99 x 1000 = _____ h) .999 of 1000 is _____

i) 1.25 x 1000 = _____ j) 3.67 of 1000 is _____

Make up two of your own.

k) _____ x 1000 = _____ l) _____ of 1000 is _____

2.

1	.5	.25	.125	.1	.05	.01
80						

a) .09 of 80 = _____ b) .90 x 80 is _____

c) .60 of 80 = _____ d) .06 x 80 is _____

e) .625 of 80 = _____ f) .375 x 80 is _____

g) 1.25 of 80 = _____ h) .15 x 80 is _____

i) .24 of 80 = _____ j) 10.6 x 80 is _____

Make up two of your own.

k) _____ of 80 = _____ l) _____ x 80 is _____

Decimal Benchmark # 2

1.

1	.5	.25	.1	.05	.01	.001
500						

a) $.3 \times 500 = \underline{\hspace{2cm}}$ b) $.03$ of 500 is $\underline{\hspace{2cm}}$

c) $.35 \times 500 = \underline{\hspace{2cm}}$ d) $.15$ of 500 is $\underline{\hspace{2cm}}$

e) $.75 \times 500 = \underline{\hspace{2cm}}$ f) $.06$ of 500 is $\underline{\hspace{2cm}}$

g) $.9 \times 500 = \underline{\hspace{2cm}}$ h) $.09$ of 500 is $\underline{\hspace{2cm}}$

i) $.009 \times 500 = \underline{\hspace{2cm}}$ j) 3.1 of 500 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 500 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 500 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
48						

a) $.35$ of 48 = $\underline{\hspace{2cm}}$ b) $.15 \times 48$ is $\underline{\hspace{2cm}}$

c) $.60$ of 48 = $\underline{\hspace{2cm}}$ d) $.95 \times 48$ is $\underline{\hspace{2cm}}$

e) $.31$ of 48 = $\underline{\hspace{2cm}}$ f) $.9 \times 48$ is $\underline{\hspace{2cm}}$

g) $.51$ of 48 = $\underline{\hspace{2cm}}$ h) $.375 \times 48$ is $\underline{\hspace{2cm}}$

i) $.24$ of 48 = $\underline{\hspace{2cm}}$ j) 2.50×48 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 48 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 48$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 3

1.

1	.5	.25	.1	.05	.01	.001
300						

a) $.75 \times 300 = \underline{\hspace{2cm}}$ b) $.35$ of 300 is $\underline{\hspace{2cm}}$

c) $.15 \times 300 = \underline{\hspace{2cm}}$ d) $.6$ of 300 is $\underline{\hspace{2cm}}$

e) $.06 \times 300 = \underline{\hspace{2cm}}$ f) $.55$ of 300 is $\underline{\hspace{2cm}}$

g) $.95 \times 300 = \underline{\hspace{2cm}}$ h) $.4$ of 300 is $\underline{\hspace{2cm}}$

i) $.26 \times 300 = \underline{\hspace{2cm}}$ j) 2.1 of 300 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 300 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 300 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
40						

a) $.75$ of 40 = $\underline{\hspace{2cm}}$ b) $.35 \times 40$ is $\underline{\hspace{2cm}}$

c) $.15$ of 40 = $\underline{\hspace{2cm}}$ d) $.06 \times 40$ is $\underline{\hspace{2cm}}$

e) $.375$ of 40 = $\underline{\hspace{2cm}}$ f) $.6 \times 40$ is $\underline{\hspace{2cm}}$

g) $.9$ of 40 = $\underline{\hspace{2cm}}$ h) 2.5×40 is $\underline{\hspace{2cm}}$

i) $.49$ of 40 = $\underline{\hspace{2cm}}$ j) 1.05×40 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 40 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 40$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 4

1.

1	.5	.25	.1	.05	.01	.001
30						

a) $.3 \times 30 = \underline{\hspace{2cm}}$ b) $.03$ of 30 is $\underline{\hspace{2cm}}$

c) $.35 \times 30 = \underline{\hspace{2cm}}$ d) $.15$ of 30 is $\underline{\hspace{2cm}}$

e) $.75 \times 30 = \underline{\hspace{2cm}}$ f) $.06$ of 30 is $\underline{\hspace{2cm}}$

g) $.9 \times 30 = \underline{\hspace{2cm}}$ h) $.09$ of 30 is $\underline{\hspace{2cm}}$

i) $.009 \times 30 = \underline{\hspace{2cm}}$ j) 3.1 of 30 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 30 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 30 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
120						

a) $.35$ of 120 = $\underline{\hspace{2cm}}$ b) $.15 \times 120$ is $\underline{\hspace{2cm}}$

c) $.6$ of 120 = $\underline{\hspace{2cm}}$ d) $.06 \times 120$ is $\underline{\hspace{2cm}}$

e) $.3$ of 120 = $\underline{\hspace{2cm}}$ f) $.9 \times 120$ is $\underline{\hspace{2cm}}$

g) $.135$ of 120 = $\underline{\hspace{2cm}}$ h) $.09 \times 120$ is $\underline{\hspace{2cm}}$

i) $.24$ of 120 = $\underline{\hspace{2cm}}$ j) 1.75×120 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 120 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 120$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 5

1.

1	.5	.25	.1	.05	.01	.001
60						

a) $.3 \times 60 = \underline{\hspace{2cm}}$ b) $.06$ of 60 is $\underline{\hspace{2cm}}$

c) $.6 \times 60 = \underline{\hspace{2cm}}$ d) $.15$ of 60 is $\underline{\hspace{2cm}}$

e) $.125 \times 60 = \underline{\hspace{2cm}}$ f) 1.25 of 60 is $\underline{\hspace{2cm}}$

g) $.35 \times 60 = \underline{\hspace{2cm}}$ h) $.09$ of 60 is $\underline{\hspace{2cm}}$

i) $.51 \times 60 = \underline{\hspace{2cm}}$ j) $.11$ of 60 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 60 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 60 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
160						

a) $.35$ of $160 = \underline{\hspace{2cm}}$ b) $.15 \times 160$ is $\underline{\hspace{2cm}}$

c) $.6$ of $160 = \underline{\hspace{2cm}}$ d) $.06 \times 160$ is $\underline{\hspace{2cm}}$

e) $.3$ of $160 = \underline{\hspace{2cm}}$ f) $.9 \times 160$ is $\underline{\hspace{2cm}}$

g) $.375$ of $160 = \underline{\hspace{2cm}}$ h) $.09 \times 160$ is $\underline{\hspace{2cm}}$

i) $.24$ of $160 = \underline{\hspace{2cm}}$ j) 1.25×160 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of $160 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 160$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 6

1.

1	.5	.25	.1	.05	.01	.001
84						

a) $.75 \times 84 = \underline{\hspace{2cm}}$ b) $.35$ of 84 is $\underline{\hspace{2cm}}$

c) $.15 \times 84 = \underline{\hspace{2cm}}$ d) $.06$ of 84 is $\underline{\hspace{2cm}}$

e) $.6 \times 84 = \underline{\hspace{2cm}}$ f) $.95$ of 84 is $\underline{\hspace{2cm}}$

g) $.2 \times 84 = \underline{\hspace{2cm}}$ h) $.02$ of 84 is $\underline{\hspace{2cm}}$

i) $.002 \times 84 = \underline{\hspace{2cm}}$ j) 1.25 of 84 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 84 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 84 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
240						

a) $.15$ of 240 = $\underline{\hspace{2cm}}$ b) $.75 \times 240$ is $\underline{\hspace{2cm}}$

c) 1.2 of 240 = $\underline{\hspace{2cm}}$ d) $.95 \times 240$ is $\underline{\hspace{2cm}}$

e) $.40$ of 240 = $\underline{\hspace{2cm}}$ f) $.6 \times 240$ is $\underline{\hspace{2cm}}$

g) $.375$ of 240 = $\underline{\hspace{2cm}}$ h) $.625 \times 240$ is $\underline{\hspace{2cm}}$

i) $.51$ of 240 = $\underline{\hspace{2cm}}$ j) 1.25×240 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 240 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 240$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 7

1.

1	.5	.25	.1	.05	.01	.001
50						

a) $2.05 \times 50 = \underline{\hspace{2cm}}$ b) $.75$ of 50 is $\underline{\hspace{2cm}}$

c) $.35 \times 50 = \underline{\hspace{2cm}}$ d) $.15$ of 50 is $\underline{\hspace{2cm}}$

e) $.11 \times 50 = \underline{\hspace{2cm}}$ f) $.06$ of 50 is $\underline{\hspace{2cm}}$

g) $.9 \times 50 = \underline{\hspace{2cm}}$ h) $.26$ of 50 is $\underline{\hspace{2cm}}$

i) $.051 \times 50 = \underline{\hspace{2cm}}$ j) $.101$ of 50 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 50 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 50 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
320						

a) $.75$ of 320 = $\underline{\hspace{2cm}}$ b) $.60 \times 320$ is $\underline{\hspace{2cm}}$

c) $.4$ of 320 = $\underline{\hspace{2cm}}$ d) $.06 \times 320$ is $\underline{\hspace{2cm}}$

e) $.04$ of 320 = $\underline{\hspace{2cm}}$ f) $.95 \times 320$ is $\underline{\hspace{2cm}}$

g) $.375$ of 320 = $\underline{\hspace{2cm}}$ h) $.625 \times 320$ is $\underline{\hspace{2cm}}$

i) $.875$ of 320 = $\underline{\hspace{2cm}}$ j) 1.25×320 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 320 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 320$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 8

1.

1	.5	.25	.1	.05	.01	.001
20						

a) $.3 \times 20 = \underline{\hspace{2cm}}$ b) $.03$ of 20 is $\underline{\hspace{2cm}}$

c) $.90 \times 20 = \underline{\hspace{2cm}}$ d) $.09$ of 20 is $\underline{\hspace{2cm}}$

e) $.75 \times 20 = \underline{\hspace{2cm}}$ f) $.85$ of 20 is $\underline{\hspace{2cm}}$

g) $.999 \times 20 = \underline{\hspace{2cm}}$ h) 5.05 of 20 is $\underline{\hspace{2cm}}$

i) $.009 \times 20 = \underline{\hspace{2cm}}$ j) $.499$ of 20 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 20 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
96						

a) $.75$ of 96 = $\underline{\hspace{2cm}}$ b) $.15 \times 96$ is $\underline{\hspace{2cm}}$

c) $.6$ of 96 = $\underline{\hspace{2cm}}$ d) $.06 \times 96$ is $\underline{\hspace{2cm}}$

e) $.3$ of 96 = $\underline{\hspace{2cm}}$ f) $.9 \times 96$ is $\underline{\hspace{2cm}}$

g) $.625$ of 96 = $\underline{\hspace{2cm}}$ h) $.99 \times 96$ is $\underline{\hspace{2cm}}$

i) $.375$ of 96 = $\underline{\hspace{2cm}}$ j) 1.05×96 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 96 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 96$ is $\underline{\hspace{2cm}}$

Decimal Benchmark # 9

1.

1	.5	.25	.1	.05	.01	.001
70						

a) $.75 \times 70 = \underline{\hspace{2cm}}$ b) $.35$ of 70 is $\underline{\hspace{2cm}}$

c) $.49 \times 70 = \underline{\hspace{2cm}}$ d) $.005$ of 70 is $\underline{\hspace{2cm}}$

e) $1.51 \times 70 = \underline{\hspace{2cm}}$ f) $.101$ of 70 is $\underline{\hspace{2cm}}$

g) $.011 \times 70 = \underline{\hspace{2cm}}$ h) $.995$ of 70 is $\underline{\hspace{2cm}}$

i) $.499 \times 70 = \underline{\hspace{2cm}}$ j) 3.6 of 70 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}} \times 70 = \underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}}$ of 70 is $\underline{\hspace{2cm}}$

2.

1	.5	.25	.125	.1	.05	.01
200						

a) $.60$ of 200 = $\underline{\hspace{2cm}}$ b) $.15 \times 200$ is $\underline{\hspace{2cm}}$

c) $.95$ of 200 = $\underline{\hspace{2cm}}$ d) $.51 \times 200$ is $\underline{\hspace{2cm}}$

e) $.3$ of 200 = $\underline{\hspace{2cm}}$ f) $.74 \times 200$ is $\underline{\hspace{2cm}}$

g) $.007$ of 200 = $\underline{\hspace{2cm}}$ h) $.09 \times 200$ is $\underline{\hspace{2cm}}$

i) $.24$ of 200 = $\underline{\hspace{2cm}}$ j) 1.55×200 is $\underline{\hspace{2cm}}$

Make up two of your own.

k) $\underline{\hspace{2cm}}$ of 200 = $\underline{\hspace{2cm}}$ l) $\underline{\hspace{2cm}} \times 200$ is $\underline{\hspace{2cm}}$

Decimal Math Squares # 1

1.

.3	.05
.04	.2

2.

.026	.302
.4	.1

3.

.001	.02
.08	.009

4.

.6	.07
.03	.2

5.

32.04	6.2
.3	10.060

6.

.03	.001
.08	.049

7.

.5	.38
.620	

3

8.

.23	
2.9	.08

6

9.

.080	.114
	.306

3.80

Decimal Math Squares # 2

1.

2.1	
2	3.9

10

2.

2.4	1.3
4.7	5.6

3.

1.25	5.5
3.25	6

4.

	2.9
3.08	1.02

8

5.

1.04	
.01	1.2

2.3

6.

3.2	1.10
1.01	2.19

7.

.684	.24
	.06

1

8.

1.4	4
	3.2

9.7

9.

2.98	.01
.2	.01

Decimal Math Squares # 3

1.

.80	.2
.600	.40

2.

	.400
.70	.3

2

3.

.4	.3
.16	.07

4.

.03	
.011	.009

.06

5.

.040	.03
.07	.06

6.

.2	.30
.100	

.900

7.

.3	.3
.3	.3

8.

	.16
.02	.24

.52

9.

1.07	.030
.2	

1.4

Decimal Math Squares # 4

1.

.40	.042
.030	.528

2.

.300	.003
3	.03

3.

2.0	.20
.020	.002

4.

2.7	1.005
5.34	

9.99

5.

.001	5.680
8.32	

20.02

6.

.02	
.3	.680

10

7.

.055	.06
.04	.345

8.

30.3	61.17
39.03	

161

9.

10.106	43.43
	9.894

100

Decimal Math Squares # 5

1.

.19	.003
.007	.81

2.

.999	.36
	.001

10

3.

.900	.010
	.09

3

4.

6.020	
5.009	4.010

20

5.

.006	.30
.04	.104

6.

.04	.006
.104	

.45

7.

3.99	2.05
	.010

7

8.

.071	
.8	.129

100.0

9.

.0101	.2039
.086	.8

Decimal Math Squares # 6

1.

.0005	.005
.05	.5

2.

.0005	.05
.05	.0005

3.

.0407	.0603
.909	.101

4.

.0300	.7009
	.0701

2

5.

.0002	.022
.078	.0078

6.

3.1010	.909
.0500	5.05

7.

.9993	.080
.0200	.0007

8.

.9090	.0500
	3.101

9.11

9.

.1234	.0030
.001	.8766

Decimal multiplication Two Ways

$$\begin{array}{|c|c|} \hline \textcircled{\times} & \\ \hline 20 & .2 \\ \hline .6 & \\ \hline & 24 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|} \hline \textcircled{\times} & & \\ \hline 20 & .2 & 4 \\ \hline .6 & 10 & 6 \\ \hline 12 & 2 & 24 \\ \hline \end{array}$$

Carlos:

“Across the top I thought that one-tenth of 20 would be 2 so two-tenths of 20 is 4. Down the right side, 6 times 4 equals 24. Across the middle, I would have to multiply six-tenths by ten to get 6. Two-tenths of 10 is 2. Down the left side, one-tenth of 20 would be 2, so six-tenths of 20 would be 12. $12 \times 2 = 24$ so it checks.”

$$\begin{array}{|c|c|} \hline \textcircled{\times} & \\ \hline .1 & \\ \hline & \\ \hline .2 & 6.4 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|} \hline \textcircled{\times} & & \\ \hline .1 & 80 & 8 \\ \hline 2 & .4 & .8 \\ \hline .2 & 32 & 6.4 \\ \hline \end{array}$$

Pat

“Across the top, what could I take one-tenth of and get 8? It would have to be 80. Down the left, $2 \times .1 = .2$. At first, I did not know what to do with $.2 \times \underline{\quad} = 6.4$. Then I thought that five two-tenths is one and thus $30 \times .2 = 6$. Just two more two-tenths gives 6.4, so $.2 \times 32 = 6.4$. Down the right side, I figured $8 \times 8 = 64$ so $8 \times .8$ would be 6.4. Across the middle $2 \times 4 = 8$, so it would have to be .4. Now to check, is $.4 \times 80 = 32$? Well, one-tenth of 80 is 8 and I need four of them. I now see that four-tenths of 80 = 32.”

Decimal Two Ways # 1

1. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 8.7 & & 9.3 \\ \hline & .04 & \\ \hline 9.1 & & \\ \hline \end{array}$

2. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 4.8 & & 7 \\ \hline & & \\ \hline 5.1 & 2.9 & \\ \hline \end{array}$

3. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & .40 & 6.2 \\ \hline .27 & & \\ \hline & & 6.5 \\ \hline \end{array}$

4. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & & 5.3 \\ \hline .2 & .02 & \\ \hline 5.32 & & \\ \hline \end{array}$

5. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 3.48 & & 4 \\ \hline & .08 & \\ \hline 3.6 & & \\ \hline \end{array}$

6. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & .2 & .58 \\ \hline & .08 & \\ \hline .4 & & \\ \hline \end{array}$

Decimal Two Ways # 2

1. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .35 & & .7 \\ \hline .06 & .14 & \\ \hline & & \\ \hline \end{array}$

2. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .5 & & .65 \\ \hline & .35 & \\ \hline .51 & & \\ \hline \end{array}$

3. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 1.36 & & 2.400 \\ \hline & .460 & \\ \hline 1.5 & & \\ \hline \end{array}$

4. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .003 & & .008 \\ \hline & .001 & \\ \hline & & .01 \\ \hline \end{array}$

5. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .704 & .046 & \\ \hline .196 & .154 & \\ \hline & & \\ \hline \end{array}$

6. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .083 & & .09 \\ \hline & .003 & \\ \hline 1 & & \\ \hline \end{array}$

Decimal Two Ways # 3

1. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 3.7 & & 3.705 \\ \hline & .115 & \\ \hline & & 4 \\ \hline \end{array}$

2. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & & .42 \\ \hline .408 & .092 & \\ \hline .82 & & \\ \hline \end{array}$

3. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & & .90 \\ \hline .12 & & .200 \\ \hline & .25 & \\ \hline \end{array}$

4. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 4.07 & & \\ \hline .6 & & 1.300 \\ \hline & & 5.77 \\ \hline \end{array}$

5. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .7 & & 1.02 \\ \hline & & \\ \hline .765 & .335 & \\ \hline \end{array}$

6. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline & .300 & 1.25 \\ \hline 1.050 & 2.8 & \\ \hline & & \\ \hline \end{array}$

Decimal Two Ways #4

1. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 7.38 & & 7.6 \\ \hline & .08 & \\ \hline 9.5 & & \\ \hline \end{array}$

2. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 2.407 & & 2.5 \\ \hline .003 & .007 & \\ \hline & & \\ \hline \end{array}$

3. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .679 & & .7 \\ \hline & .019 & \\ \hline .68 & & \\ \hline \end{array}$

4. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline 4.955 & & 4.96 \\ \hline & .005 & \\ \hline 4.99 & & \\ \hline \end{array}$

5. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .008 & .092 & \\ \hline .417 & & .525 \\ \hline & & \\ \hline \end{array}$

6. $\begin{array}{|c|c|c|} \hline \textcircled{+} & & \\ \hline .002 & & .1 \\ \hline & & .999 \\ \hline 1 & & \\ \hline \end{array}$

Decimals Two Ways # 5

1. $\textcircled{\times}$

100	.35	
.05	4	

2. $\textcircled{\times}$

50	.02	
.04		.12

3. $\textcircled{\times}$

	.2	
.25		2
1		

4. $\textcircled{\times}$

4	.15	
	.3	3

5. $\textcircled{\times}$

15	.2	
.3		
		9

6. $\textcircled{\times}$

40	.08	
.25	20	

Decimals Two Ways # 6

1. $\textcircled{\times}$

.3	2.5	
.1		2

2. $\textcircled{\times}$

.02	60	
.12		3.6

3. $\textcircled{\times}$

1000	.005	
.15	100	

4. $\textcircled{\times}$

4	.09	
	20	
2		

5. $\textcircled{\times}$

4		
.75	8	
	16.8	

6. $\textcircled{\times}$

.6	20	
3	.25	

Decimals Two Ways # 7

1. $\textcircled{\times}$

	.08	
.5		.25
100		

2. $\textcircled{\times}$

10	2.400	
.4	12.0	

3. $\textcircled{\times}$

		15.00
.04	5	
	.25	

4. $\textcircled{\times}$

12	.750	
1.25		
	3	

5. $\textcircled{\times}$

	.6	18
.04	5	

6. $\textcircled{\times}$

8	.025	
1.5	20	

Decimals Two Ways # 8

1. $\textcircled{\times}$

8	.15	
		5
	.6	

2. $\textcircled{\times}$

		.15
.4		40
1.2		

3. $\textcircled{\times}$

1000	.006	
.001	2000	

4. $\textcircled{\times}$

.02		.2
.1		.6

5. $\textcircled{\times}$

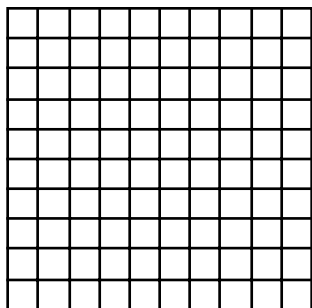
5	.05	
.4		
		.5

6. $\textcircled{\times}$

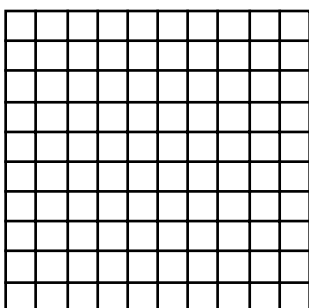
.750	12	
	.250	
1.5		

Percent Units

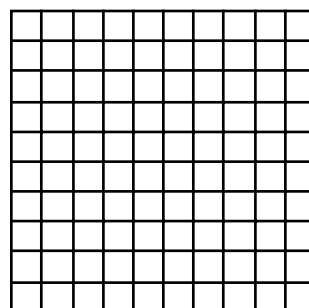
Shade the given percent of the region.



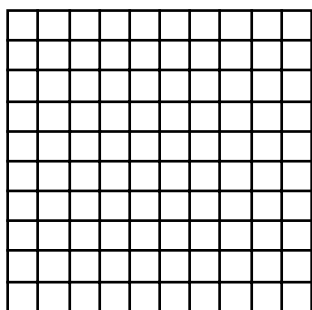
50%



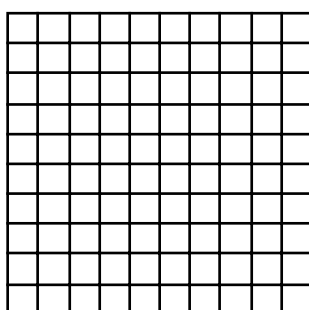
25%



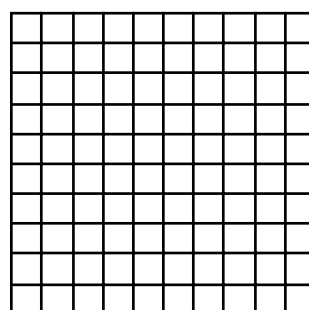
75%



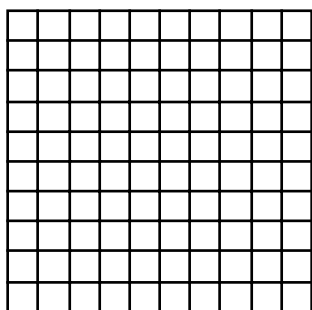
10%



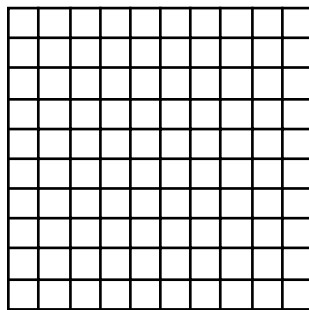
20%



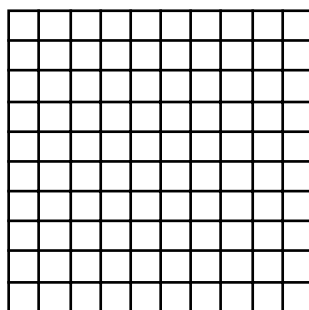
40%



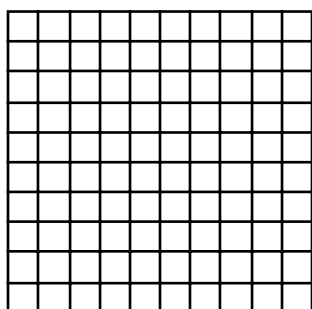
30%



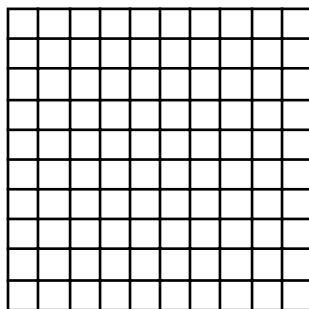
60%



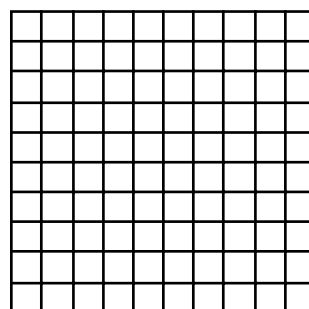
15%



28%



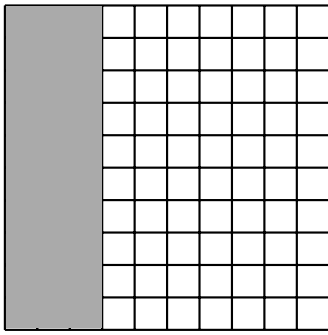
95%



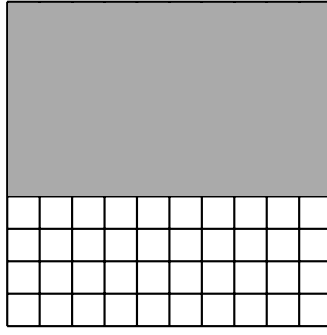
1%

Write the percent of each region that is shaded.

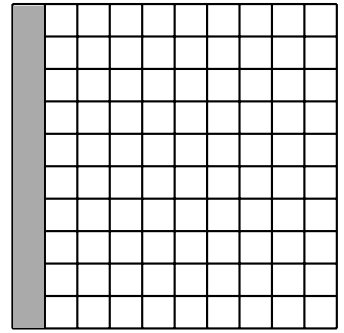
1.



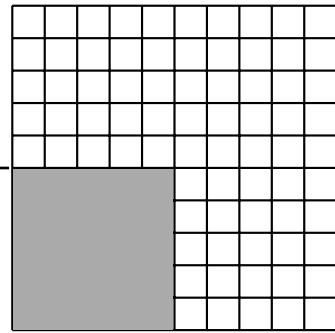
2.



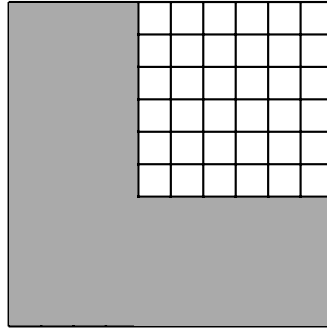
3.



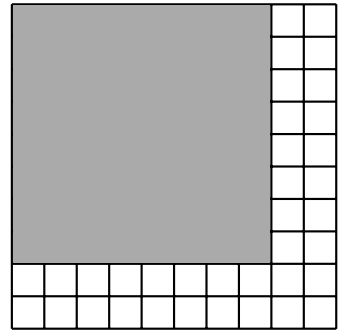
4.



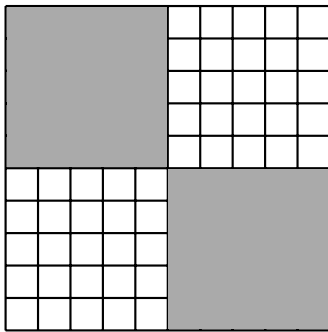
5.



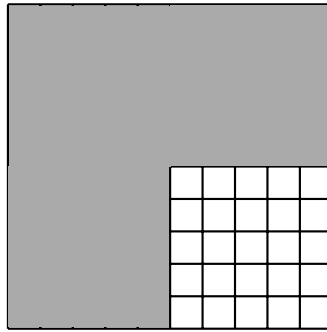
6.



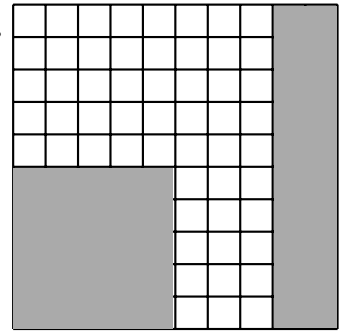
7.



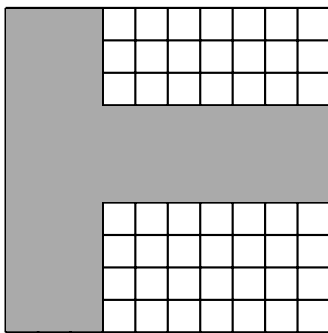
8.



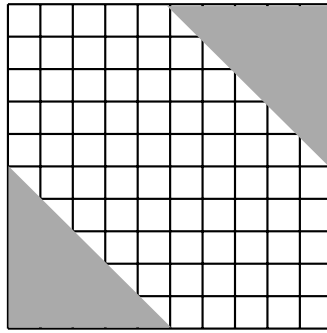
9.



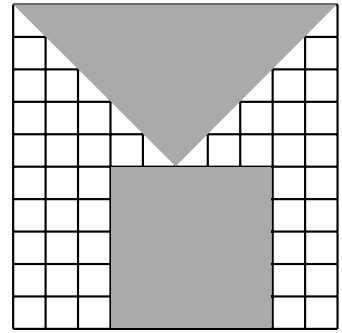
10.



11.

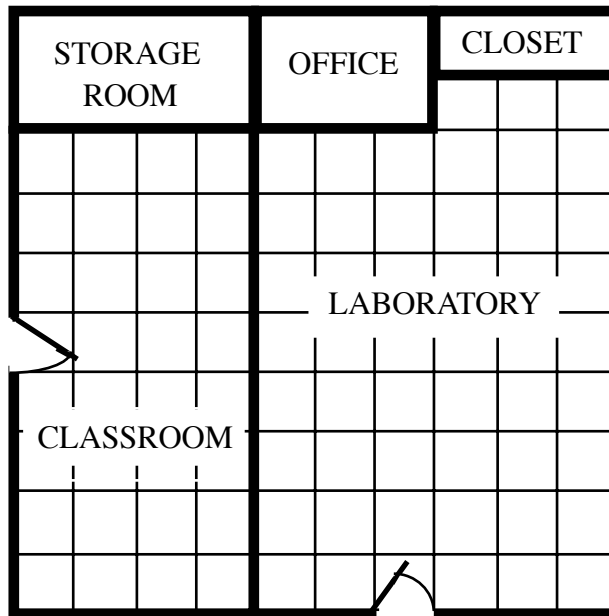


12.



Floor Plan

Write the percent that tells what part of the science area is covered by each section.



1. the office _____
2. the closet _____
3. the classroom _____
4. the laboratory _____
5. the storage room _____
6. the storage room, office, and closet together _____
7. the classroom and laboratory together _____
8. the classroom, office and closet together _____
9. the laboratory and storage room together _____

Benchmark Percents

Mark is a manager of The Athlete Shop and is in charge of pricing sale items. In his job he often needs to mentally compute percentages of a specific dollar amount. Here's an example of how Mark does his calculations using "benchmarks":

A jacket is currently priced at \$80.00. Mark already knows the following:

1% of \$80.00 is \$.80

10% of \$80.00 is \$ 8.00

25% of \$80.00 is \$20.00

Using **only** these benchmarks, he combines these amounts to figure other percentages.

2% of \$80.00 is \$1.60 (double the 1% amt.)

3% of \$80.00 is \$2.40 (triple the 1% amt.)

4% of \$80.00 is \$3.20 (4 times the 1% amt. or double the 2% amt.)

5% of \$80.00 is \$4.00 (5 times the 1% amt. or half of the 10% amt.)

20% of \$80.00 is \$16.00 (double the 10% amt.)

75% of \$80.00 is \$60.00 (triple the 25% amt.)

23% of \$80.00 is \$18.40 (20% + 3% or \$16.00 + \$2.40)

Try some!

50% of \$80.00 is _____

30% of \$80.00 is _____

100% of \$80.00 is _____

60% of \$80.00 is _____

90% of \$80.00 is _____

15% of \$80.00 is _____

70% of \$80.00 is _____

9% of \$80.00 is _____

40% of \$80.00 is _____

49% of \$80.00 is _____

12% of \$80.00 is _____

33% of \$80.00 is _____

Make up some of your own.

_____ % of \$80.00 is _____

_____ % of \$80.00 is _____

_____ % of \$80.00 is _____

_____ % of \$80.00 is _____

Percent Benchmarks # 1

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
1000						

a) **75% x 1000 = _____** b) **15% of 1000 is _____**

c) **35% x 1000 = _____** d) **60% of 1000 is _____**

e) **20% x 1000 = _____** f) **30% of 1000 is _____**

g) **51% x 1000 = _____** h) **26% of 1000 is _____**

i) **99% x 1000 = _____** j) **105% of 1000 is _____**

Make up two of your own.

k) **_____ x 1000 = _____** l) **_____ of 1000 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$80						

a) **30% of \$80 = _____** b) **60% x \$80 is _____**

c) **90% of \$80 = _____** d) **15% x \$80 is _____**

e) **35% of \$80 = _____** f) **70% x \$80 is _____**

g) **40% of \$80 = _____** h) **75% x \$80 is _____**

i) **125% of \$80 = _____** j) **24% x \$80 is _____**

Make up two of your own.

k) **_____ of \$80 = _____** l) **_____ x \$80 is _____**

Percent Benchmarks # 2

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
600						

a) **75% x 600 = _____** b) **35% of 600 is _____**

c) **15% x 600 = _____** d) **60% of 600 is _____**

e) **49% x 600 = _____** f) **55% of 600 is _____**

g) **30% x 600 = _____** h) **20% of 600 is _____**

i) **125% x 600 = _____** j) **3% of 600 is _____**

Make up two of your own.

k) **_____ x 600 = _____** l) **_____ of 600 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$60						

a) **75% of \$60 = _____** b) **55% x \$60 is _____**

c) **15% of \$60 = _____** d) **20% x \$60 is _____**

e) **40% of \$60 = _____** f) **30% x \$60 is _____**

g) **60% of \$60 = _____** h) **90% x \$60 is _____**

i) **$7\frac{1}{2}\%$ of \$60 = _____** j) **35% x \$60 is _____**

Make up two of your own.

k) **_____ of \$60 = _____** l) **_____ x \$60 is _____**

Percent Benchmarks # 3

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
200						

a) **75% x 200 = _____** b) **35% of 200 is _____**

c) **15% x 200 = _____** d) **60% of 200 is _____**

e) **49% x 200 = _____** f) **55% of 200 is _____**

g) **30% x 200 = _____** h) **20% of 200 is _____**

i) **500% x 200 = _____** j) **2% of 200 is _____**

Make up two of your own.

k) _____ x 200 = _____ l) _____ of 200 is _____

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$40						

a) **30% of \$40 = _____** b) **60% x \$40 is _____**

c) **90% of \$40 = _____** d) **15% x \$40 is _____**

e) **70% of \$40 = _____** f) **35% x \$40 is _____**

g) **$7\frac{1}{2}\%$ of \$40 = _____** h) **40% x \$40 is _____**

i) **$12\frac{1}{2}\%$ of \$40 = _____** j) **225% x \$40 is _____**

Make up two of your own.

k) _____ of \$40 = _____ l) _____ x \$40 is _____

Percent Benchmarks # 4

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
300						

a) **75% x 300 = _____** b) **15% of 300 is _____**

c) **35% x 300 = _____** d) **60% of 300 is _____**

e) **11% x 300 = _____** f) **30% of 300 is _____**

g) **51% x 300 = _____** h) **26% of 300 is _____**

i) **99% x 300 = _____** j) **20% of 300 is _____**

Make up two of your own.

k) **_____ x 300 = _____** l) **_____ of 300 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$18						

a) **60% of \$18 = _____** b) **30% x \$18 is _____**

c) **75% of \$18 = _____** d) **15% x \$18 is _____**

e) **95% of \$18 = _____** f) **9% x \$18 is _____**

g) **150% of \$18 = _____** h) **40% x \$18 is _____**

i) **$7\frac{1}{2}\%$ of \$18 = _____** j) **49% x \$18 is _____**

Make up two of your own.

k) **_____ of \$18 = _____** l) **_____ x \$18 is _____**

Percent Benchmarks # 5

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
160						

a) **75% x 160 = _____** b) **15% of 160 is _____**

c) **40% x 160 = _____** d) **60% of 160 is _____**

e) **20% x 160 = _____** f) **30% of 160 is _____**

g) **$7\frac{1}{2}\%$ x 160 = _____** h) **35% of 160 is _____**

i) **$12\frac{1}{2}\%$ x 160 = _____** j) **125% of 160 is _____**

Make up two of your own.

k) **_____ x 160 = _____** l) **_____ of 160 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$50						

a) **30% of \$50 = _____** b) **60% x \$50 is _____**

c) **90% of \$50 = _____** d) **15% x \$50 is _____**

e) **70% of \$50 = _____** f) **9% x \$50 is _____**

g) **40% of \$50 = _____** h) **49% x \$50 is _____**

i) **$7\frac{1}{2}\%$ of \$50 = _____** j) **125% x \$50 is _____**

Make up two of your own.

k) **_____ of \$50 = _____** l) **_____ x \$50 is _____**

Percent Benchmarks # 6

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
240						

a) **75% x 240 = _____** b) **15% of 240 is _____**

c) **35% x 240 = _____** d) **60% of 240 is _____**

e) **20% x 240 = _____** f) **30% of 240 is _____**

g) **$7\frac{1}{2}\%$ x 240 = _____** h) **90% of 240 is _____**

i) **$12\frac{1}{2}\%$ x 240 = _____** j) **250% of 240 is _____**

Make up two of your own.

k) **_____ x 240 = _____** l) **_____ of 240 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$36						

a) **30% of \$36 = _____** b) **60% x \$36 is _____**

c) **90% of \$36 = _____** d) **15% x \$36 is _____**

e) **35% of \$36 = _____** f) **70% x \$36 is _____**

g) **$12\frac{1}{2}\%$ of \$36 = _____** h) **40% x \$36 is _____**

i) **$7\frac{1}{2}\%$ of \$36 = _____** j) **125% x \$36 is _____**

Make up two of your own.

k) **_____ of \$36 = _____** l) **_____ x \$36 is _____**

Percent Benchmarks # 7

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
320						

a) **75% x 320 = _____** b) **15% of 320 is _____**

c) **35% x 320 = _____** d) **60% of 320 is _____**

e) **125% x 320 = _____** f) **30% of 320 is _____**

g) **$7\frac{1}{2}\%$ x 320 = _____** h) **26% of 320 is _____**

i) **$12\frac{1}{2}\%$ x 320 = _____** j) **120% of 320 is _____**

Make up two of your own.

k) **_____ x 320 = _____** l) **_____ of 320 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$24						

a) **30% of \$24 = _____** b) **60% x \$24 is _____**

c) **20% of \$24 = _____** d) **15% x \$24 is _____**

e) **75% of \$24 = _____** f) **35% x \$24 is _____**

g) **40% of \$24 = _____** h) **90% x \$24 is _____**

i) **$12\frac{1}{2}\%$ of \$24 = _____** j) **250% x \$24 is _____**

Make up two of your own.

k) **_____ of \$24 = _____** l) **_____ x \$24 is _____**

Percent Benchmarks # 8

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
400						

a) **75% x 400 = _____** b) **15% of 400 is _____**

c) **35% x 400 = _____** d) **60% of 400 is _____**

e) **3% x 400 = _____** f) **30% of 400 is _____**

g) **51% x 400 = _____** h) **26% of 400 is _____**

i) **99% x 400 = _____** j) **200% of 400 is _____**

Make up two of your own.

k) **_____ x 400 = _____** l) **_____ of 400 is _____**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%
\$72						

a) **75% of \$72 = _____** b) **55% x \$72 is _____**

c) **15% of \$72 = _____** d) **60% x \$72 is _____**

e) **35% of \$72 = _____** f) **2% x \$72 is _____**

g) **40% of \$72 = _____** h) **49% x \$72 is _____**

i) **$12\frac{1}{2}\%$ of \$72 = _____** j) **125% x \$72 is _____**

Make up two of your own.

k) **_____ of \$72 = _____** l) **_____ x \$72 is _____**

Percent Benchmarks # 9

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) **74% x 80 = _____** b) **55% of 60 is _____**

c) **49% x 200 = _____** d) **110% of 90 is _____**

e) **10% x _____ = 45** f) **25% of _____ is 85**

g) **500% x _____ = \$1.05** h) **80% of _____ is \$64**

i) **_____ % x 80 = 20** j) **_____ % of 60 is 90**

k) **_____ % x \$64 = \$3.20** l) **_____ % of 70 is 21**

m) **What percent of the cards in a 52 card deck are not face cards?**

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) **0.5% x 400 = _____** b) **95% of 60 is _____**

c) **26% x 44 = _____** d) **175% of 8 is _____**

e) **1% x _____ = \$3.08** f) **600% of _____ is \$15**

g) **15% x _____ = 45** h) **40% of _____ is 6**

i) **_____ % x 75 = 60** j) **_____ % of 35 is 7**

k) **_____ % x \$4 = \$1.60** l) **_____ % of \$4.50 is \$9**

m) **If 32% percent of a number is 128, find 40% of the number.**

Percent Benchmarks # 10

1.

100%	50%	25%	10%	5%	2½%	1%

a) **900% x 7 = _____** b) **99% of 480 is _____**

c) **35% x \$28 = _____** d) **101% of \$10 is _____**

e) **50% x _____ = \$3.55** f) **20% of _____ is \$7.20**

g) **2% x _____ = 8.4** h) **300% of _____ is 12.75**

i) **_____ % x \$1.04 = 52¢** j) **_____ % of 80 is 12**

k) **_____ % x 300 = 210** l) **_____ % of 66 is 22**

m) Comfort Shoe Store marks up its prices 20%. What is the store's profit on a pair of shoes that sell for \$144.00?

2.

100%	50%	25%	10%	5%	2½%	1%

a) **65% x 30 = _____** b) **45% of \$16 is _____**

c) **250% x 4 = _____** d) **26% of 104 is _____**

e) **8% x _____ = \$3.20** f) **40% of _____ is \$2.80**

g) **3% x _____ = 12** h) **200% of _____ is .5**

i) **_____ % x \$7 = \$6.30** j) **_____ % of 48 is 36**

k) **_____ % x 250 = 150** l) **_____ % of \$9.70 is 97¢**

m) Darci got a 10% discount on a pair of jeans that was originally priced at \$44.90. How much did Darci pay for the jeans?

Percent Benchmarks # 11

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) **25%** x **20¢** = b) **5%** of **\$401** is

c) **600%** x **35** = d) **49%** of **120** is

e) **7%** x = **\$6.30** f) **175%** of is **21**

g) **30%** x = **75** h) **6%** of is **\$42**

i) % x **\$3.90** = **\$1.95** j) % of **400** is **160**

k) % x **20** = **14** l) % of **4** is **20**

m) Abel paid \$18.90 for a hat that was on sale. He paid 75% of the regular price. What was the regular price of the hat?

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) **10%** x **\$1.20** = b) **12.5%** of **42** is

c) **90%** x **670** = d) **225%** of **32** is

e) **35%** x = **70** f) **9%** of is **54¢**

g) **125%** x = **5** h) **60%** of is **\$240**

i) % x **\$21** = **\$10.50** j) % of **45** is **30**

k) % x **240** = **180** l) % of **\$24** is **\$3**

m) In the class election, 660 of the 750 students voted. What percent of the students voted? What percent of the students did not vote?

Percent Benchmarks # 12

1.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) $105\% \times \$17 = \underline{\hspace{2cm}}$ b) 4% of 60 is $\underline{\hspace{2cm}}$

c) $51\% \times 200 = \underline{\hspace{2cm}}$ d) 11% of 540 is $\underline{\hspace{2cm}}$

e) $750\% \times \underline{\hspace{2cm}} = \underline{30}$ f) 75% of $\underline{\hspace{2cm}}$ is $\underline{15}$

g) $0.5\% \times \underline{\hspace{2cm}} = \underline{18\text{¢}}$ h) 5% of $\underline{\hspace{2cm}}$ is $\underline{\$12.50}$

i) $\underline{\hspace{2cm}}\% \times \$25 = \underline{\$7.50}$ j) $\underline{\hspace{2cm}}\%$ of 400 is $\underline{240}$

k) $\underline{\hspace{2cm}}\% \times \$45 = \underline{\$9}$ l) $\underline{\hspace{2cm}}\%$ of 6 is $\underline{15}$

m) Laura spent $4\frac{1}{2}$ days of her 10-day vacation at Disney World.
What percent of her vacation did she spend at Disney World?

2.

100%	50%	25%	10%	5%	$2\frac{1}{2}\%$	1%

a) $15\% \times 61 = \underline{\hspace{2cm}}$ b) 2% of $\$8$ is $\underline{\hspace{2cm}}$

c) $40\% \times 205 = \underline{\hspace{2cm}}$ d) 350% of 2 is $\underline{\hspace{2cm}}$

e) $90\% \times \underline{\hspace{2cm}} = \underline{\$2.70}$ f) 70% of $\underline{\hspace{2cm}}$ is $\underline{28}$

g) $4\% \times \underline{\hspace{2cm}} = \underline{6}$ h) 800% of $\underline{\hspace{2cm}}$ is $\underline{\$20}$

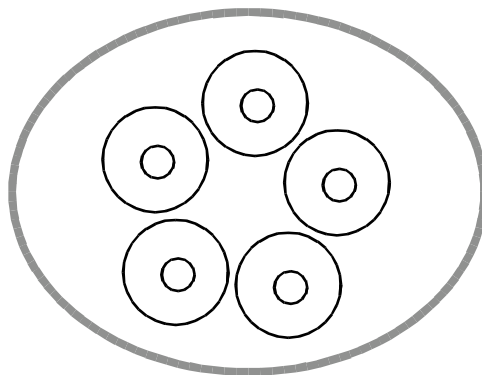
i) $\underline{\hspace{2cm}}\% \times \$48 = \underline{\$12.00}$ j) $\underline{\hspace{2cm}}\%$ of 55 is $\underline{44}$

k) $\underline{\hspace{2cm}}\% \times 50 = \underline{45}$ l) $\underline{\hspace{2cm}}\%$ of $\$210$ is $\underline{\$10.50}$

m) Matt bought a \$100 boom box at a 10% discount and then paid a 10% sales tax. How much did Matt pay for the boom box?

Thinking in Percents

1. Given the plate of doughnuts shown, answer the following questions.

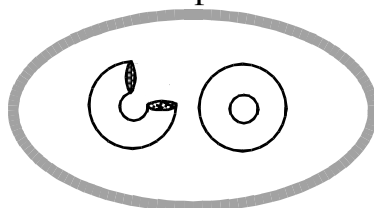


- a. Jessie ate 3 doughnuts. What percent of the plate of doughnuts did she eat? _____

- b. Jarrod ate $1\frac{1}{2}$ doughnuts. What percent of the plate of doughnuts did he eat? _____

- c. What percent of the plate of doughnuts is left? _____

2. Two doughnuts were left on a plate in the cafeteria as shown below.



- a. What percent of the partially eaten doughnut appears to be missing? _____

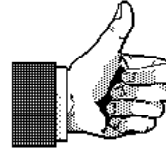
- b. What percent of the **plate** of doughnuts is missing (counting both doughnuts)? _____

- c. If three of us want to split equally the remaining doughnuts, what percent of the plate of doughnuts could we each have? _____

Estimating and Graphing Percents

1. The results of a Student Council election for President held last week were as follows:

Sandy received 224 votes
Doug received 150 votes
Alex received 76 votes



Approximately what percent of the total number of votes did each candidate receive?

Sandy _____ Doug _____ Alex _____

Draw a circle graph to show the voting results for class president. Title and label your graph.

2. The class wants to raise a total of \$1,250 this year for the children's home. They raised \$620 from magazine sales and \$130 from dances.

Approximately what **percent** of their goal of \$1,250 have they raised?

Approximately what **percent** of their goal did the dances bring in?

Approximately what **percent** of their goal does the class still need to raise?

Draw a circle graph to show the parts in percent: magazine sales, dances, and amount still needed. Title the graph and label each part.

3. Passing a state budget is a long and complicated procedure. At times this process can nearly shut down the state government. One year a house of representatives rejected the governor's budget proposal and developed their own version. There were 74 democrats and 46 republicans in the house that summer.

If 44 democrats and 35 republicans voted to pass the house version of the budget and all members voted, answer the following questions:

Approximately what percent of the **democrats** voted yes? _____

Approximately what percent of the **republicans** voted yes? _____

Approximately what percent of all representatives voted yes? _____

4. Arnold works as a roofer for a construction company 40 hours a week and makes \$6.00 an hour. Federal income and social security taxes take approximately 15% of his income. Most people spend approximately 30% of their income on a place to live. **Estimate** how much Arnold has to spend on an apartment if he uses the 30% guideline.

Total Income per week \$_____ Taxes \$_____

Amt. for housing \$_____

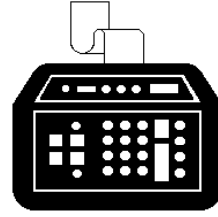
5. Arnold recently married and decided to enter a training program to become a welder. When he completes the program, he will be making \$13.50 an hour. If he works 40 hours a week as a welder and taxes amount to about 20% of his income, **estimate** how much he will have available to spend on housing (still using the 30% guideline).

Total Income per week \$_____ Taxes \$_____

Amt. for housing \$_____

After paying taxes and housing, how much money will Arnold have left?

Calculating Percent



Refer to problems 1-3 on the previous pages to do the following problems.

1. In some elections, where there are more than two candidates, a run-off election is held between the top two vote getters if one of the candidates does not receive more than 50% of the votes. Look at the Student Council election results and determine whether or not a run-off election is necessary. Use a **calculator** to determine the percent as closely as possible.

Sandy received what percent? _____ Alex received what percent? _____

Doug received what percent? _____ Is a run-off election necessary? _____

2. The class must file a financial report. The report must have results to the **nearest whole percent**. Based on the information given in problem 2 from the previous assignment, use your **calculator** to find the following percentages.

Percent of the total goal from magazine sales? _____

Percent of the total goal from dances? _____

What percent of the money must still be raised to meet this goal? _____

3. A governor can veto the a legislative budget. It takes 67% of the votes to override the veto. Assuming that all members of the house vote and nobody changes their mind, use a **calculator** to determine if the house can override the veto.

What percent of yes votes does the house have? _____

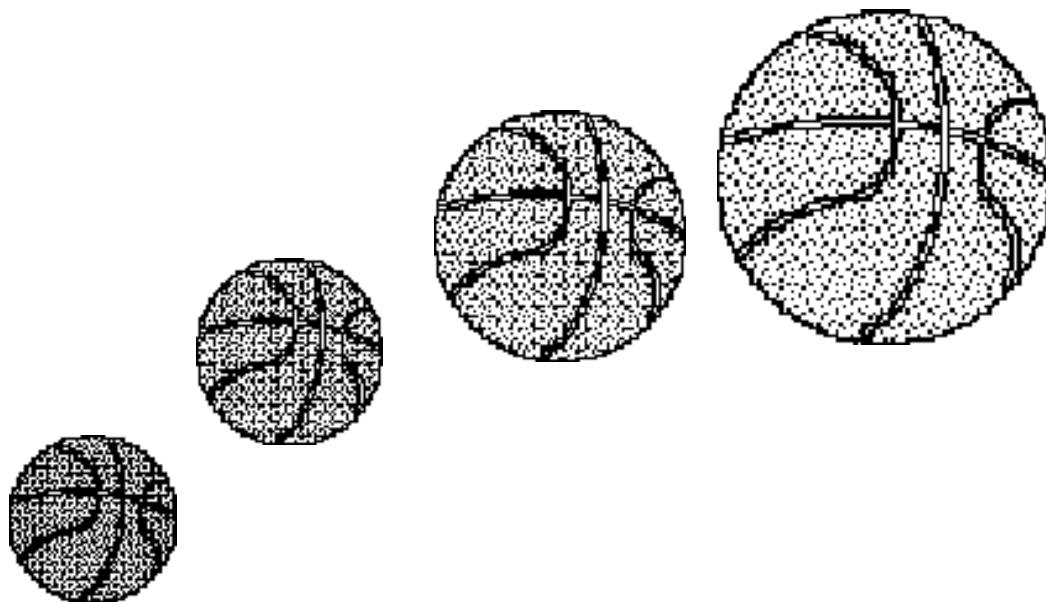
Will the veto override attempt succeed? Explain _____

Percents and Basketball Statistics



Percentages are used in basketball to indicate a player's field goal average. The "Dream Team" worksheet provides students with some statistics on well-known players. Many of the percentages will need to be rounded and should promote some discussion.

One of the more interesting ways of involving students in working with percents is to arrange to show a video of the first half of an actual game. Ask your basketball coach if he/she has a video to watch or tape a recent game from a college or pro team that is televised. Assign each student one or more players to watch and keep a tally of the shots made and shots attempted on the sheet provided. Follow this activity with a **class discussion**.



“Dream Team” and Percents

Given some statistics from one of the Exhibition games during the historic 1992 Summer Olympics, can you determine the following field goal percentages (to the nearest whole percent) of several of the players from the U.S. Basketball "Dream Team"?

Player	FG	FGA	% of shots made	% of shots missed
Jordan	6	11	_____	_____
Bird	6	12	_____	_____
Mullins	7	13	_____	_____
Johnson	4	9	_____	_____
Barkley	5	12	_____	_____
Laettner	3	4	_____	_____
Ewing	6	9	_____	_____
Malone	4	13	_____	_____

How many shots would Bird have made if he attempted 100 baskets? What about Malone and Laettner?

Bird _____ Malone _____ Laettner _____

Describe the relationship between the percentage of shots missed and the percentage of shots made.

Find the team totals for each category.

FG	FGA	% of shots made	% of shots missed
_____	_____	_____	_____

Viewing a Basketball Game

Name _____

Game _____

Team _____

Select a team and record the information below.

Player	Shots Made	Shots Missed	Total Shots Attempted	Percent of shots Made	Percent of shots Missed

Teacher Notes on “Calculator-ing” Percents

The purpose of the following activity is to familiarize students with the % mode on a calculators.

Before introducing this activity, a class warm-up might include discussing ways of writing down calculator steps for basic arithmetic operations.

Warm-up 1

Say to the class "Add 17 and 8 on your calculator. What answer did you get? Now, write down each step that you took. Be specific."

Examples: $17 \boxed{+} 8 \boxed{=}$ **OR** $8 \boxed{+} 17 \boxed{=}$ **OR** $17 \boxed{+} 8 \boxed{+}$

Warm-up 2

Say to the class, "Multiply 9 and 5 , then subtract 10 from the result. What is your answer? Record each step carefully."

Examples: $9 \boxed{\times} 5 \boxed{=}$ $\boxed{-} 10$ **OR** $9 \boxed{\times} 5 \boxed{-} 10 \boxed{=}$

Make up more sample problems as needed. The introductory problem on the following page is intended for students to experiment with their calculators until they find a way to use the % key and come up with a correct response. Possible recorded steps for this problem are shown below.

$$49.95 \times 40 \% =$$

$$40 \% \times 49.95 =$$

$$*40 \times 49.95 \quad \%$$

*Some students will begin to see that **when** the % key is used, the decimal point moves 2 place; we want to encourage students to act meaningfully.

“Calculator-ing” Percents

Laurel wants to determine the exact amount of discount she will receive on a pair of jeans that is advertised as 40% off the regular price. Using the percent button on her calculator, she finds the discount to be \$19.98. If the regular price is \$49.95, show the steps that Laurel took on her calculator to determine the amount of discount. Be specific!

Use your calculator to solve these problems.

1. Regular price: \$7.00

Discount 10% _____

Sale Price \$ _____

2. Regular price: \$65.00

Discount 20% _____

Sale Price \$ _____

3. Regular price: \$125.00

Discount: 50% _____

Sale Price \$ _____

4. Regular price: \$48.50

Discount 30% _____

Sale Price \$ _____

5. Regular price: \$520.00

Discount: 25% _____

Sale Price \$ _____

6. Regular price: \$280.00

Discount: 60% _____

Sale Price \$ _____

7. Total restaurant bill: \$45.30

Tip: 20% _____

8. Total restaurant bill: \$72.00

Tip: 15% _____

9. Total sales: \$350.00

Sales tax 6%: _____

10. Total sales: \$15,750

Sales tax 7%: _____

11. Total sales: \$1250.00

Sales tax 6.5%: _____

12. Total sales: \$432.50

Sales tax 4.5% _____

13. In 1982, a belt sold for \$11.50. Ten years later, the price of the belt increased by 80%. How much **more** did it sell for in 1992? How much would the belt cost in 1992?

Discount

A pair of Guess jeans regularly sells for \$65.95. It is now selling at a 20% discount. Find the approximate discount first by using compatible numbers for the dollar amounts and/or the percents. Then use a calculator to determine the exact amount of discount and the sale price.

Step 1

\$65.95 is approx. \$70.00
 10% of \$70 is \$7
 20% of \$70 is \$14 (double the 10% amt.)
 \$14.00 is the **approx.** discount

Step 2

To figure exactly 20% of \$65.95, we need our calculators. Experiment with the % button on your calculator until you come up with \$13.19.

Step 3

Reg. price: \$65.95 Amt. of Disc.: \$13.19 Sale Price: \$65.95 - \$13.19 = \$52.76

	Actual	Approx.
Reg. price:	\$18.90	_____
Discount:	50%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

	Actual	Approx.
Reg. price:	\$47.80	_____
Discount:	30%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

	Actual	Approx.
Reg. price:	\$137.90	_____
Discount:	50%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

	Actual	Approx.
Reg. price:	\$92.40	_____
Discount:	30%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

	Actual	Approx.
Reg. price:	\$203.00	_____
Discount:	40%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

	Actual	Approx.
Reg. price:	\$37.20	_____
Discount:	25%	_____
Amt. of Disc:	_____	_____
Sale Price:	_____	_____

Problem Solving with Percents

Solve the following problems. Show your work neatly and clearly and be able to **verify** your solution(s).

1. Which television would cost you less money? A \$429 television set with a 20% discount or a television set with no discount priced at \$359?
2. The Miami Heat basketball team has won 13 games and lost 4 games. The Orlando Magic team has won 22 games and lost 9 games. About how many games would each team win if they each play 100 games? Who would have the better record?
3. You and a guest have eaten in a restaurant which had excellent service. Your bill comes to \$23.00. If you leave exactly a 15% tip, what would the amount of the tip be?
4. A taxi driver gets to keep 25% of his fares. One day his fares totaled \$358. How much money did the taxi driver keep?
5. You purchase an item for \$28.50. You must also pay 6% sales tax. How much change should you receive if you give a salesperson a \$50 bill?

Fraction-Decimal-Percent Two Ways # 1

1. Write 0.5 as a percent.
2. Write $\frac{3}{4}$ as a decimal.
3. Write 0.25 as a fraction in simplest terms.
4. Change 10% to a fraction in simplest terms.
5. Write $\frac{1}{5}$ as percent.
6. Change 37% to a decimal.

7. ⓧ

	$2\frac{1}{2}$	7.5
50%		
	10	

8. ⓧ

	1.25	
25%		$\frac{6}{3}$
		10

9. ⓧ

$\frac{1}{2}$		
200%	1.5	
		9

10. ⓧ

12	.5	
400%	$4\frac{1}{2}$	

Fraction-Decimal-Percent Two Ways # 2

1. Write 0.05 as a percent.
2. Write $\frac{1}{4}$ as a decimal.
3. Write 0.4 as a fraction in simplest terms.
4. Change 60% to a fraction in simplest terms.
5. Write $\frac{3}{5}$ as percent.
6. Change 110% to a decimal.

7. ⓧ

$\frac{3}{4}$		6
		100%
1.5		

8. ⓧ

2	10.5	
$\frac{1}{6}$	200%	

9. ⓧ

$\frac{1}{4}$	40%	
		10
.5		

10. ⓧ

25%	40	
	.1	
$1\frac{1}{4}$		

Fraction-Decimal-Percent Two Ways # 3

1. \textcircled{X}

	$\frac{1}{4}$	
50%	4	
4		

2. \textcircled{X}

50%		
		1.5
$\frac{1}{4}$		$4\frac{1}{2}$

3. \textcircled{X}

	.6	18
$\frac{1}{5}$		
	3	

4. \textcircled{X}

125%	8	
12	$\frac{1}{4}$	

5. \textcircled{X}

9	.1	
$33\frac{1}{3}\%$		
	$1\frac{1}{5}$	

6. \textcircled{X}

.5		15
	$66\frac{2}{3}\%$	$1\frac{1}{3}$

Fraction-Decimal-Percent Two Ways # 4

1. $\textcircled{\times}$

	.1	$\frac{4}{5}$
75%		
		24

2. $\textcircled{\times}$

$\frac{3}{8}$		6
	.125	
75%		

3. $\textcircled{\times}$

$\frac{2}{5}$		6
.5	80%	

4. $\textcircled{\times}$

$\frac{1}{4}$		1.75
	.25	200%

5. $\textcircled{\times}$

20%		$\frac{3}{5}$
40		
	.3	

6. $\textcircled{\times}$

$\frac{1}{6}$		$33\frac{1}{3}\%$
	.750	18

Fraction-Decimal-Percent Two Ways # 5

1. $\textcircled{\times}$

25%		$\frac{1}{4}$
	$\frac{1}{2}$	
2.5		

2. $\textcircled{\times}$

250%		$7\frac{1}{2}$
	.125	
		3.75

3. $\textcircled{\times}$

.05		3
		$66\frac{2}{3}\%$
10%		

4. $\textcircled{\times}$

	$\frac{1}{2}$	
60%		3
18		

5. $\textcircled{\times}$

5		$\frac{1}{4}$
	400%	
		3

6. $\textcircled{\times}$

$\frac{3}{5}$	25	
	40%	
4.8		

Fraction-Decimal-Percent Two Ways # 6

1. ⓧ

$37\frac{1}{2}\%$		3
	$\frac{1}{4}$	
$.750$		

2. ⓧ

1%		$\frac{6}{3}$
	90%	
$.1$		

3. ⓧ

	$\frac{1}{20}$	$.800$
$12\frac{1}{2}\%$		
	$.2$	

4. ⓧ

$\frac{5}{8}$		15
	5%	$.4$

5. ⓧ

300%		$1\frac{1}{2}$
	150%	
		18

6. ⓧ

$\frac{1}{20}$		$.350$
	$.5$	
20%		

Equivalency Chart

1. Fraction Decimal Percent

a.	$\frac{2}{5}$		
b.		.5	
c.			75%
d.	$\frac{1}{10}$		
e.			30%
f.		.7	
g.	$\frac{9}{10}$		
h.		.6	
i.	$\frac{1}{5}$		
j.			80%
k.		.25	
l.		.125	
m.	$\frac{1}{3}$		
n.			87.5%
o.			$66\frac{2}{3}\%$
p.	$\frac{5}{8}$		
q.		.375	

Complete each chart by writing the equivalent fraction, decimal or percent.

Express all fractions in simplest terms.

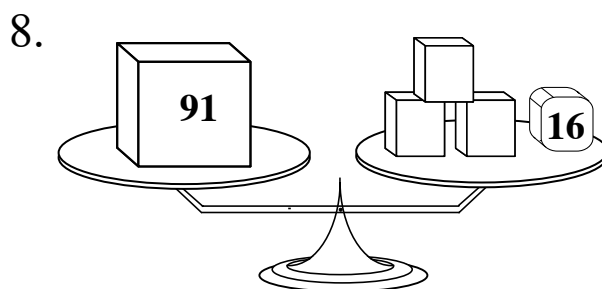
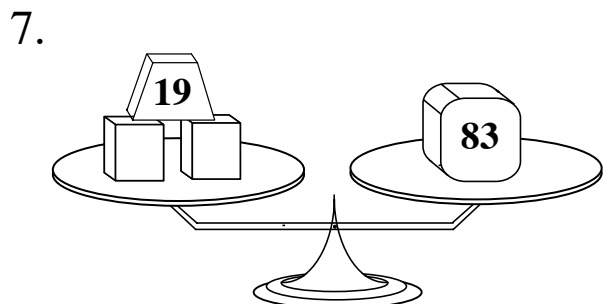
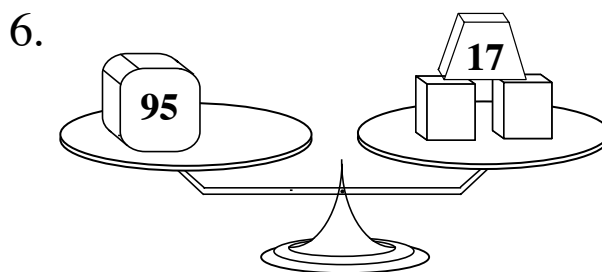
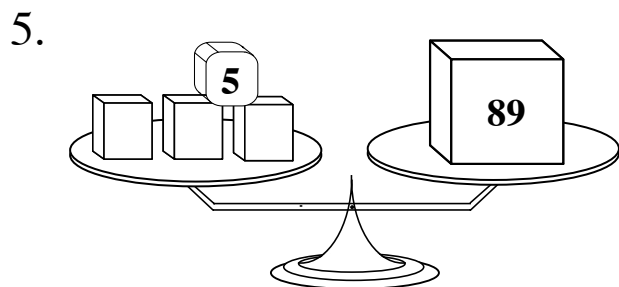
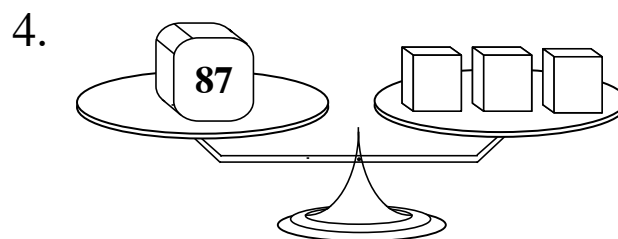
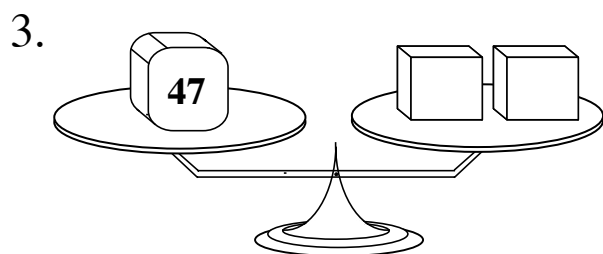
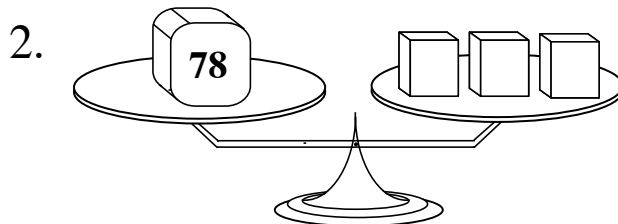
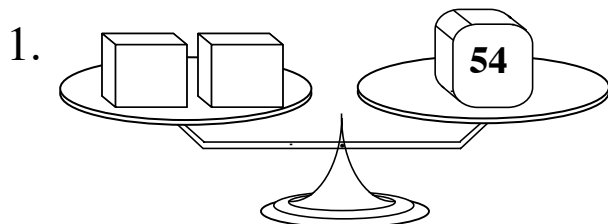
2. Fraction Decimal Percent

a.	$\frac{3}{5}$		
b.		.20	
c.			25%
d.	$\frac{8}{10}$		
e.			45%
f.	$\frac{1}{8}$		
g.			90%
h.		1.25	
i.	$\frac{1}{50}$		
j.			150%
k.		.05	
l.		.625	
m.	$\frac{2}{3}$		
n.			300%
o.			.1%
p.	$\frac{3}{8}$		
q.		.875	

Algebra Balances # 1

After solving the balance, write an equation for it.

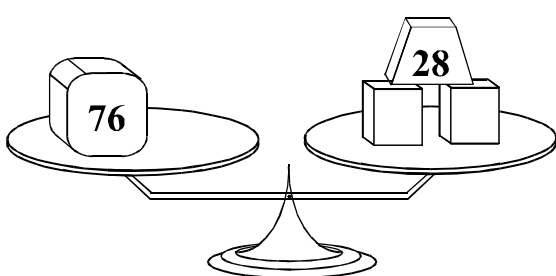
Boxes that are the same size and shape must have the same number in them.



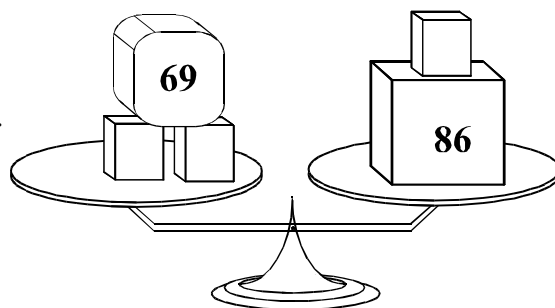
Algebra Balances # 2

After solving the balance, write an equation for it.

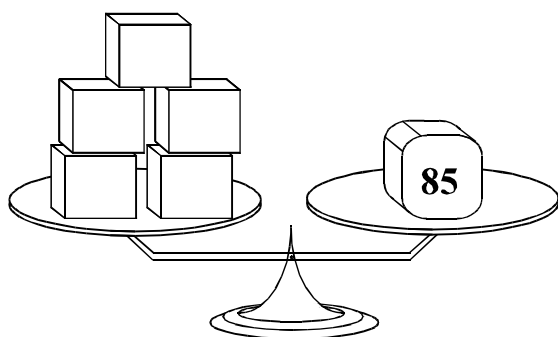
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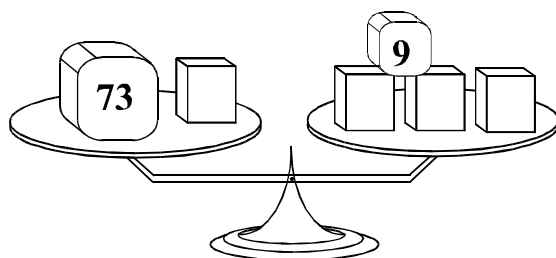
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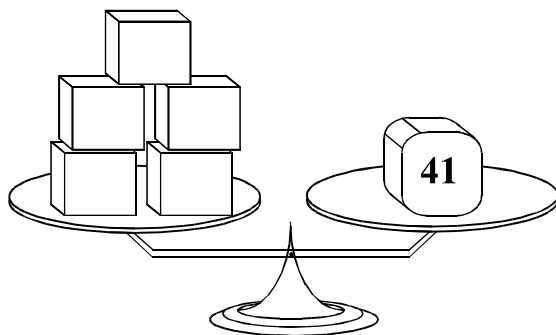
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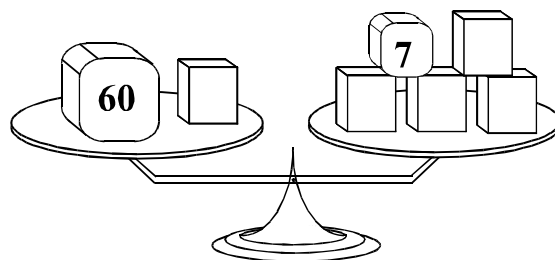
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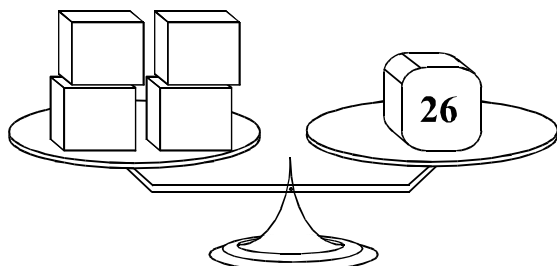
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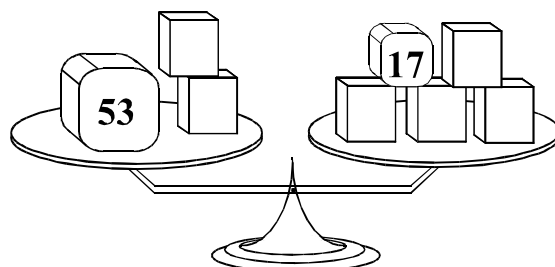
6.



7.



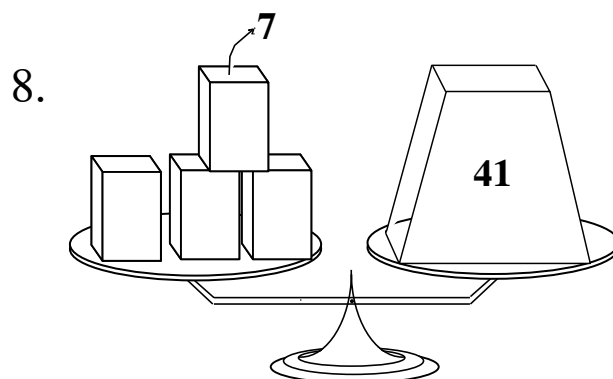
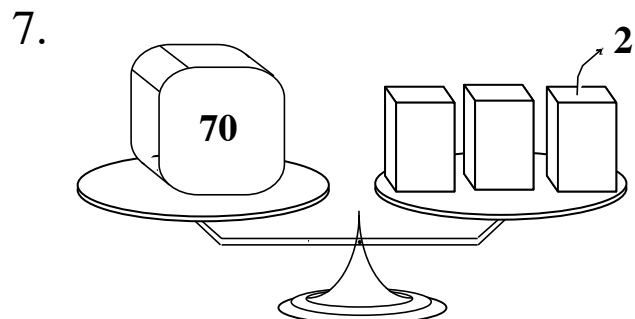
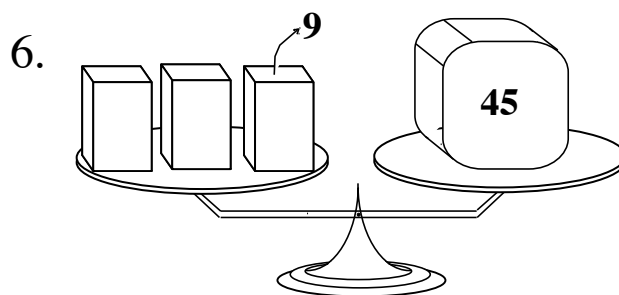
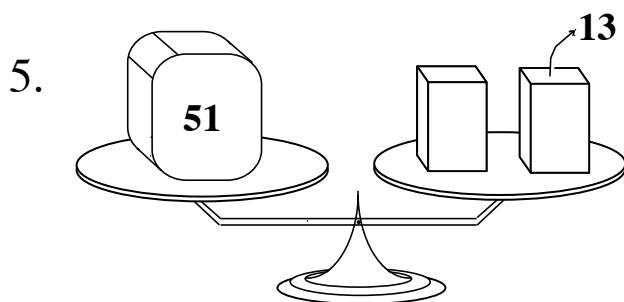
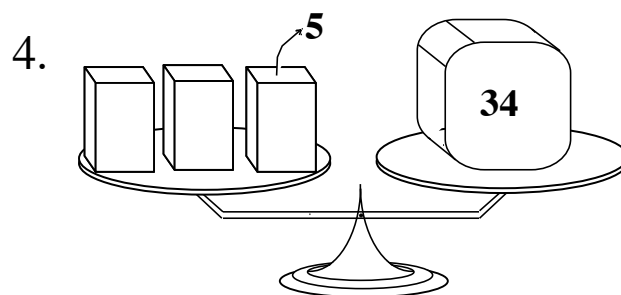
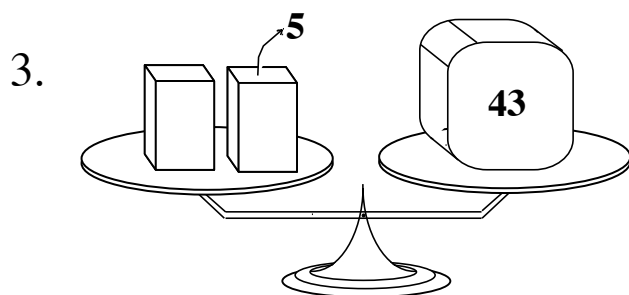
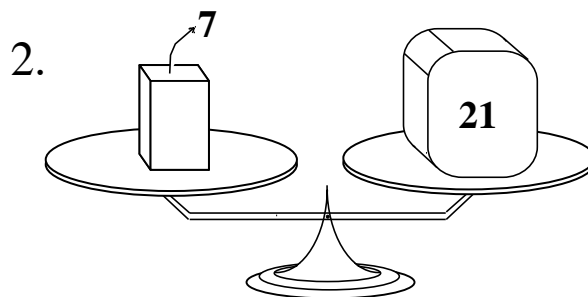
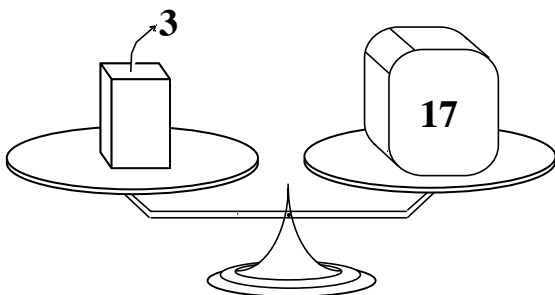
8.



Algebra Balances # 3

After solving the balance, write an equation for it.

1. When three are removed from the box, the scale balances.
How many does the box hold?



Thinking Algebraically #4

1. A printer is packaging books in identical boxes. She has filled seven boxes and all but 5 books in another box. She has packed 51 books. How many books in a full box? Solve. Draw a picture for this problem. Now write an algebraic equation for the problem.

2. A printer is packaging books in identical boxes. She has filled five boxes and all but 4 books in another box. She has packed 86 books. How many books in a full box? Solve. Draw a picture for this problem. Now write an algebraic equation for the problem.

What's the Rule? # 2

1.

n	y
6	12
2	8
14	20
74	
	38

$y =$ _____

2.

n	y
2	18
8	72
4	36
20	
	171

$y =$ _____

3.

n	y
1	1
6	16
25	73
53	
	10

$y =$ _____

4.

n	y
5	25
60	245
9	41
1	
	405

$y =$ _____

5.

n	y
20	80
45	55
90	10
1	
	0

$y =$ _____

6.

n	y
12	3
48	12
160	40
4	
	7

$y =$ _____

What's the Rule? # 3

1.

n	y
15	6
26	17
48	39
201	
	0

$y =$ _____

2.

n	y
27	9
3	1
15	5
90	
	7

$y =$ _____

3.

n	y
6	59
20	199
3	29
100	
	9

$y =$ _____

4.

n	y
6	54
10	50
12	48
15	
	0

$y =$ _____

5.

n	y
$5\frac{1}{4}$	21
$3\frac{1}{2}$	14
1.5	6
$7\frac{1}{2}$	
	1

$y =$ _____

6.

n	y
3	10
10	24
18	40
36	
	4

$y =$ _____

What's the Rule? # 4

1.

n	y
6	36
8	64
10	100
-5	
	400

$y =$ _____

2.

n	y
10	20
5	25
3	27
16	
	40

$y =$ _____

3.

n	y
1	$\frac{1}{2}$
6	3
9	$4\frac{1}{2}$
0	
	$10\frac{1}{2}$

$y =$ _____

4.

n	y
$\frac{1}{8}$	$\frac{5}{8}$
$\frac{1}{4}$	$\frac{3}{4}$
$\frac{1}{2}$	1
$1\frac{3}{4}$	
	$\frac{7}{8}$

$y =$ _____

5.

n	y
2.408	2.41
.068	.07
.999	1.001
.78	
	2

$y =$ _____

6.

n	y
1	1
2	6
4	16
0	
	96

$y =$ _____

What's the Rule? # 5

1.

n	y
5	20
8	26
35	80
0	
	200

$y =$ _____

2.

n	y
12	7
30	16
4	3
48	
	100

$y =$ _____

3.

n	y
4	20
7	56
9	90
0	
	2

$y =$ _____

4.

n	y
10	1
20	2
90	9
1	
	.400

$y =$ _____

5.

n	y
$1\frac{2}{3}$	5
$6\frac{1}{3}$	19
$\frac{1}{6}$	$\frac{1}{2}$
$2\frac{1}{4}$	
	$\frac{3}{8}$

$y =$ _____

6.

n	y
10	30
8	32
4	36
50	
	0

$y =$ _____

What's the Rule? # 6

1.

n	y
6	30
-2	-10
25	125
-7	
	-100

$y =$ _____

2.

n	y
0	0
2	-2
-4	4
-2	
	-4

$y =$ _____

3.

n	y
5	24
9	80
7	48
1	
	99

$y =$ _____

4.

n	y
$\frac{1}{2}$	$\frac{1}{4}$
$5\frac{3}{8}$	$5\frac{1}{8}$
$2\frac{1}{8}$	$1\frac{7}{8}$
$1\frac{1}{3}$	
	$\frac{1}{6}$

$y =$ _____

5.

n	y
8	72
10	70
20	60
40	
	0

$y =$ _____

6.

n	y
1	$\frac{3}{4}$
4	3
8	6
40	
	60

$y =$ _____

Algebra Two Ways #2

1. ⊗

3^0	
9	81

2. ⊗

9	3^2
3^{-1}	
	3^4

3. ⊗

	2
2^5	64

4. ⊗

2^{-1}	4
2^0	
	2^5

5. ⊗

2^{-3}	8
	2^6

6. ⊗

2^{-2}	
	2^0
2^1	

Algebra Two Ways #3

1. \otimes

2^2		2^3
	2^3	
2^4		

2. \otimes

3^2	3^2	
	3	
		3^6

3. \otimes

3	x	
x^2	4	

4. \otimes

x		x^2
	x	
		x^4

5. \otimes

2^2	2	
2^2		2^4

6. \otimes

3		$3y^2$
2		
	y^3	

Algebra Two Ways #4

1. \textcircled{X}

	3^4	3^2
		3^0
	3^1	

2. \textcircled{X}

32	2^{-4}	
2^{-3}		$2x$

3. \textcircled{X}

$4x^2$		
	$2x^5$	
$\frac{4}{x}$		$8x^2$

4. \textcircled{X}

y^{-3}		y^{-5}
	y^0	y

5. \textcircled{X}

		$36x^3$
2^{-2}		
x^2		$9x^3$

6. \textcircled{X}

$(xy)^2$		
		x^{-3}
y^2		y^3

Algebra Two Ways #5

1. \otimes

b^3		
	b	b^3
		b^{10}

2. \otimes

x^2		$-4x^2$
$-3x^2$	$-4x$	

3. \otimes

4	2	
x	x	

4. \otimes

6		18
	x^2	
$6x$		

5. \otimes

$2x$		$10x$
		$3x^2$
$6x$		

6. \otimes

x		
	x	
$3x$		$21x^2$

Algebra Two Ways #6

1. \otimes

4	
x	$3x$
	$3x^2$

2. \otimes

x^0	x
x^2	x

3. \otimes

xy	
2	x^2y
	x^2

4. \otimes

a^0	b
a	b^2

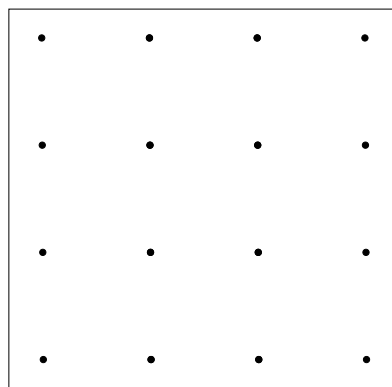
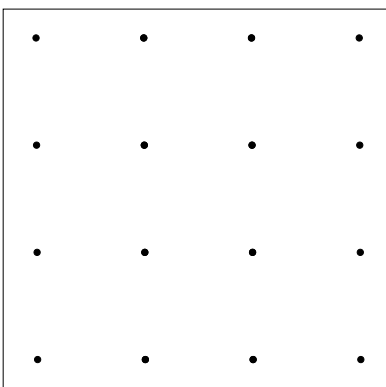
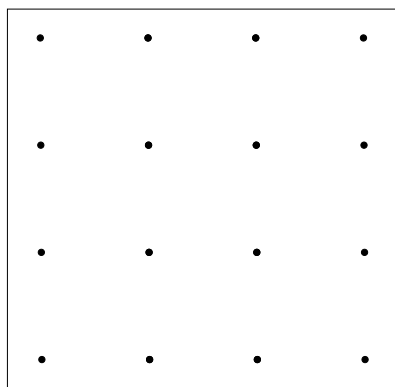
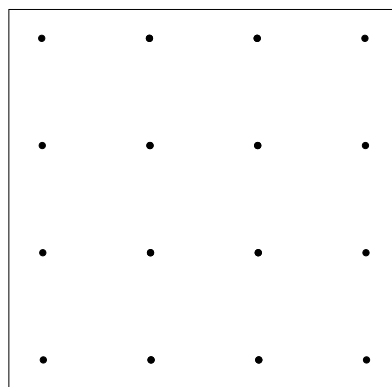
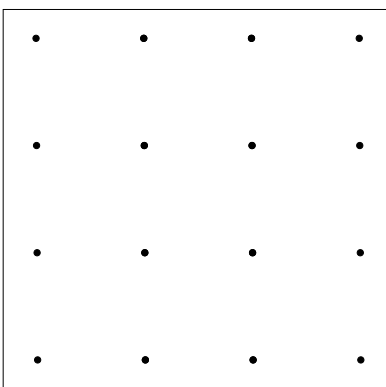
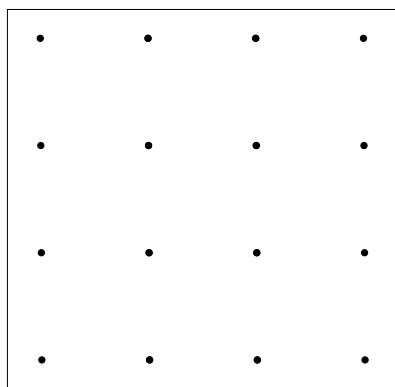
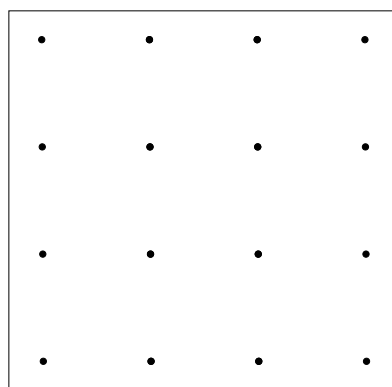
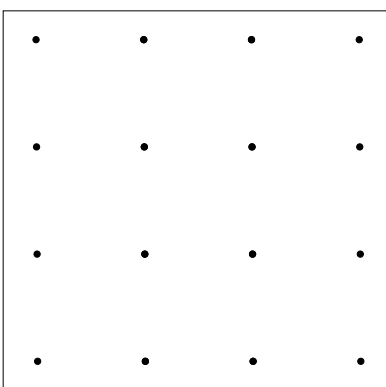
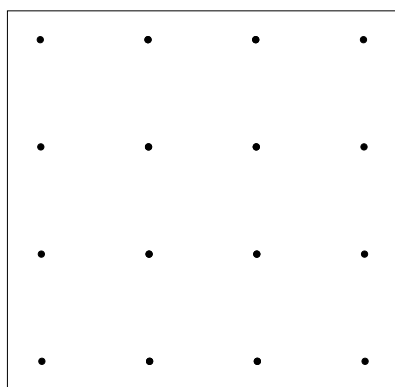
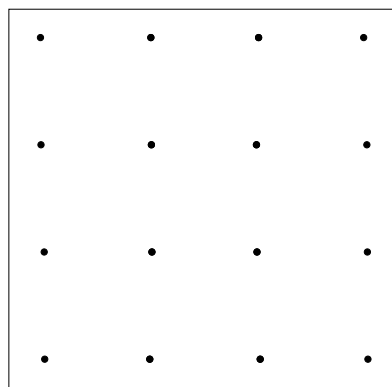
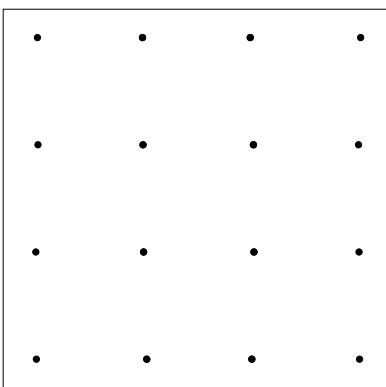
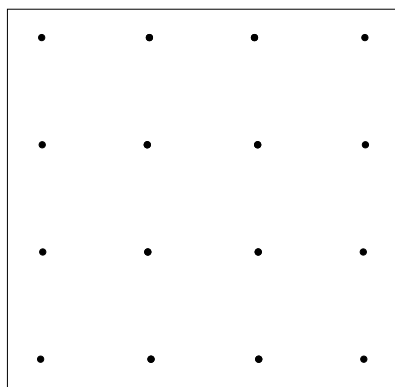
5. \otimes

	y
	6
$2x$	$3y$

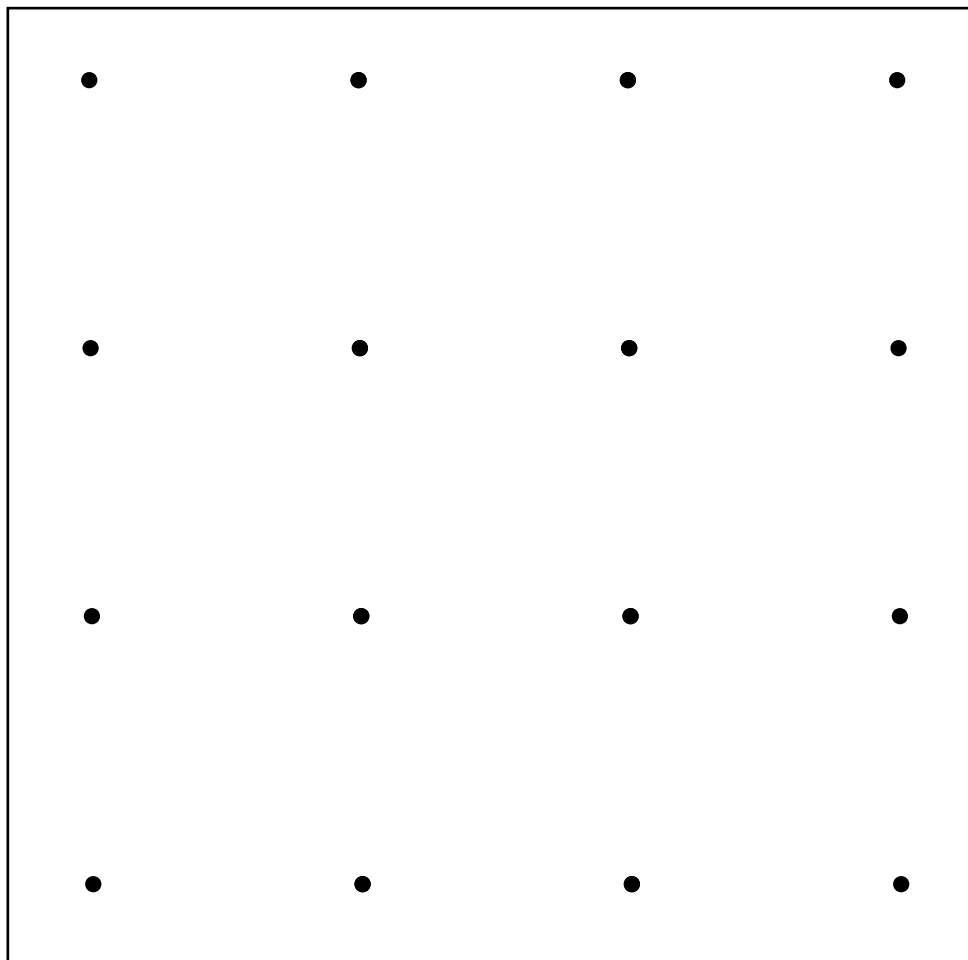
6. \otimes

x^2	3
y	5

16 Point Grids

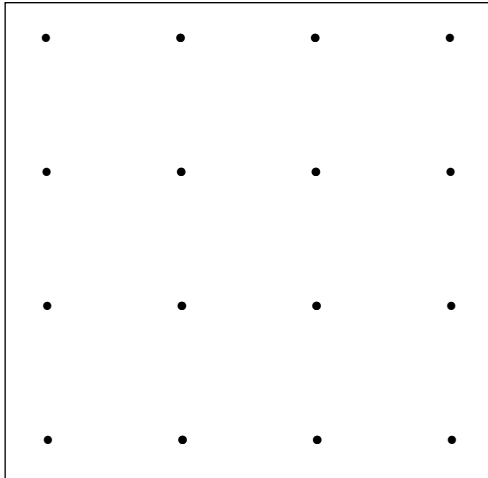


TRIANGLE #_____



1. The area of the above triangle is _____ square units.
2. Angle 1 \approx _____^o
3. Angle 2 \approx _____^o
4. Angle 3 \approx _____^o
5. The sum of the three angles is _____^o.
6. Using your angle measures, classify the triangle as either a:
 Right Triangle _____
 Acute Triangle _____
 Obtuse Triangle _____
7. Side 1 \approx _____ units long.
8. Side 2 \approx _____ units long.
9. Side 3 \approx _____ units long.
10. The perimeter of this triangle is _____ units.
11. Using your measurements, classify the triangle as either a:
 Scalene Triangle _____
 Isosceles Triangle _____
 Equilateral Triangle _____

Quadrilateral # _____



1. The area of the quadrilateral is _____ square units.

2. Classify the quadrilateral. Check all that apply.

Square _____

Rectangle _____

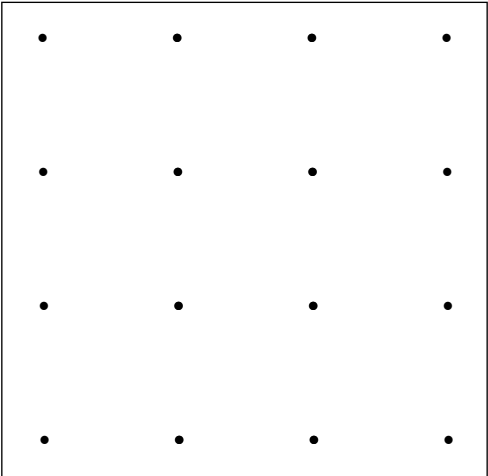
Parallelogram _____

Trapezoid _____

Rhombus _____

None of the above _____

Quadrilateral # _____



1. The area of the quadrilateral is _____ square units.

2. Classify the quadrilateral. Check all that apply.

Square _____

Rectangle _____

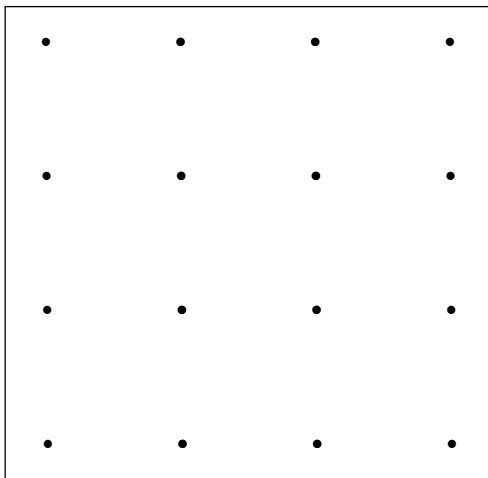
Parallelogram _____

Trapezoid _____

Rhombus _____

None of the above _____

Quadrilateral # _____



1. The area of the quadrilateral is _____ square units.

2. Classify the quadrilateral. Check all that apply.

Square _____

Rectangle _____

Parallelogram _____

Trapezoid _____

Rhombus _____

None of the above _____

A Different 16 Point Grid

