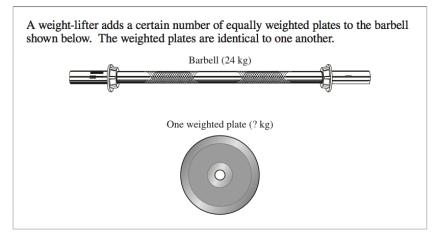
Use the following information to answer question 17.



- **17.** If the total mass of the barbell and plates equals 60 kg, and if each side of the barbell has the same number of plates, then one weighted plate could have a mass of
  - **A.** 36 kg
  - **B.** 12 kg
  - **C.** 6 kg
  - **D.** 4 kg
- 18. Marc has a certain number of coins that are dimes, *d*, and quarters, *q*. Which of the following expressions represents the value of Marc's money in cents?
  - **A.** 10d + 25q
  - **B.** 35(d+q)
  - **C.** 35d + q
  - **D.** d + q

Use the following equation to answer question 24.

2.15x + 7.8 = 25

- 24. Which of the following equations is equivalent to the equation shown above?
  - **A.** 215x + 780 = 2500
  - **B.** 215x + 780 = 250
  - **C.** 215x + 78 = 2500
  - **D.** 215x + 78 = 25

Use the following information to answer numerical-response question 7.

Alan, Bob, and Charles worked together on a job and earned a combined total of \$380. Alan earned \$40 less than Bob. Charles earned twice as much as Alan.

Numerical Response

How much did Alan earn?

Answer: \$ \_\_\_\_\_

(Record your answer in the numerical-response section on the answer sheet.)

<sup>7.</sup> 

Use the following information to answer numerical-response question 1.

A piggy bank contains only quarters and nickels, and there is a total of 60 coins. The total value of the coins in the bank is \$7.40.

Numerical Response

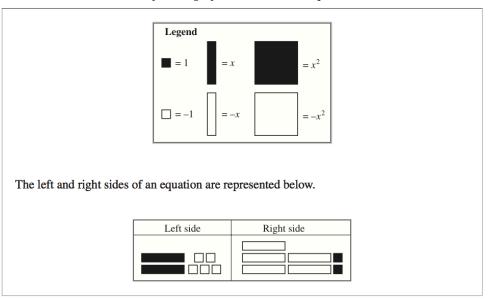
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How many quarters are in the piggy bank?

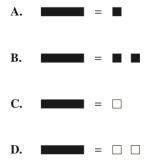
Answer: \_\_\_\_

(Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer question 9.



9. The solution to the equation above can be represented by



Name:

Use the following information to answer question 17.

Tara, Jennifer, and Mindy donated some money to a charity. Jennifer donated twice as much as Tara, and Mindy donated \$10 less than Jennifer.

- 17. If the total amount donated to the charity is \$50, then how much money did Tara donate?
  - **A.** \$6
  - **B.** \$8
  - **C.** \$12
  - **D.** \$24

The total length of time it takes for a single passenger train to travel between Vancouver and Toronto is 80 h.

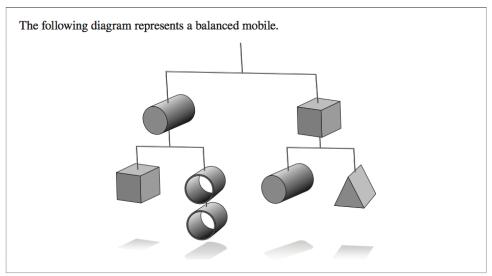
Starting Location	Ending Location	Time (h)
Vancouver	Jasper	$\frac{5}{9}x$
Jasper	Winnipeg	$\frac{2}{3}x$
Winnipeg	Toronto	x

- 21. How long does it take the train to travel between Winnipeg and Toronto?
  - **A.** 24 h
  - **B.** 36 h
  - **C.** 44 h
  - **D.** 53 h

**31.** The value of x in the equation 2(x + 5) - 12 = 50 is

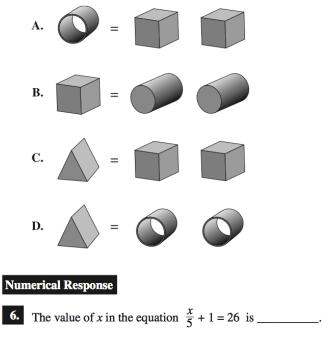
- **A.** 24
- **B.** 26
- **C.** 32
- **D.** 36

Name:



Use the following information to answer question 34.

**34.** Which of the following equations correctly represents the relationship between some of the objects shown in the diagram above?



<sup>(</sup>Record your answer in the numerical-response section on the answer sheet.)

Name:

Use the following information to answer numerical-response question 10.

Patricia wants to buy a new pair of ice skates that cost \$250 including GST. She already has \$86 she plans to use towards this purchase. She earns \$10.25/hour at her part-time job.

Numerical Response

What is the minimum number of hours that she must work to save enough money to purchase the pair of ice skates?

Answer:		hours
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(Record your answer in the numerical-response section on the answer sheet.)

The amount of money, A, Hanna receives selling bracelets, b, at a local market is represented by the relation A = 5b. Her expenses, E, for making the bracelets are represented by the relation E = 20 + b.

- 19. What is the minimum number of bracelets that Hanna needs to sell to pay for her expenses?
  - A. 4 bracelets
  - **B.** 5 bracelets
  - C. 6 bracelets
  - D. 7 bracelets

Use the following information to answer question 6.

Catherine sells cupcakes, c, for \$1.50 each. The ingredients for each cupcake cost her \$0.30, and the sum of all of her other expenses is \$20.00/month.

- 6. Which of the following expressions represents Catherine's profit each month?
  - A. 1.5c (20 + 0.3c)
  - **B.** 20c (1.5 + 0.3c)
  - **C.** (20 + 0.3c) 1.5c
  - **D.** (1.5 + 0.3c) 20c
- 15. The value of x in the equation  $3(2x-1) = \frac{1}{2}(x+6)$  is
  - A.  $\frac{8}{11}$ B.  $\frac{12}{11}$ C.  $\frac{14}{11}$ D.  $\frac{18}{11}$

Name:

Use the following information to answer numerical-response question 5.

In one month, Dale earned \$180.00. He earned \$45.00 by washing cars, and the rest by mowing lawns.

Numerical Response

How many lawns did Dale mow if he received \$9.00 for each lawn that he mowed?

Answer: \_\_\_\_\_ lawns

(Record your answer in the numerical-response section on the answer sheet.)

Amy has already saved \$50 toward the purchase of a new camera that has a total cost of \$235. She earns the rest of the money she needs to buy the camera by babysitting her sister. Each time she babysits, she is paid \$15.

Numerical Response

5. What is the minimum number of times Amy must babysit her sister in order to earn enough money to purchase the camera?

Answer: \_\_\_\_\_ times

(Record your answer in the numerical-response section on the answer sheet.)

- 14. The value of x in the equation  $3(2x-1) = \frac{1}{2}(x+6)$  is
  - A.  $\frac{8}{11}$  $\frac{12}{11}$ B.  $\frac{14}{11}$ C.  $\frac{18}{11}$

D.