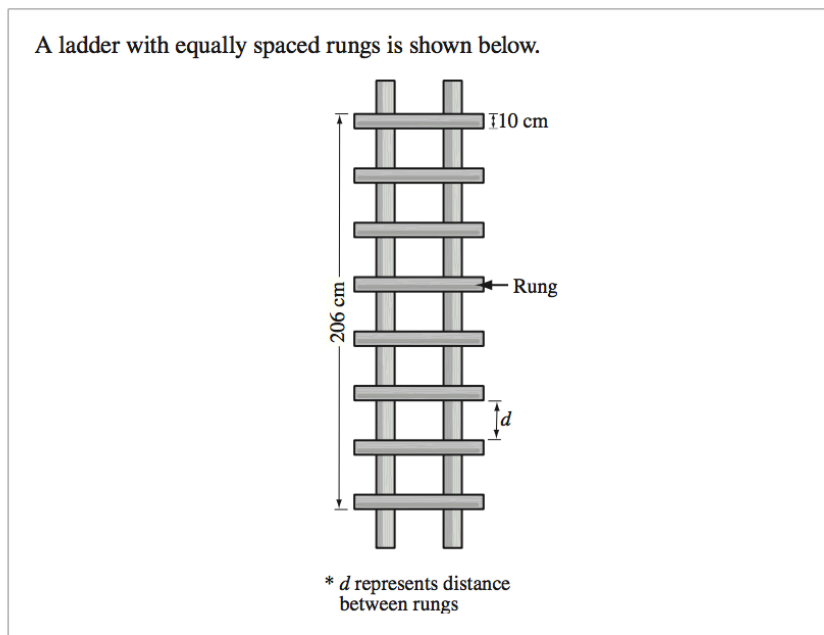


4. Which of the following expressions is equivalent to  $\frac{40 + 10}{5 \times (6 - 4)}$ ?
- A.  $40 + 10 \div 5 \times 6 - 4$
  - B.  $(40 + 10) \div 5 \times (6 - 4)$
  - C.  $40 + 10 \div (5 \times (6 - 4))$
  - D.  $(40 + 10) \div (5 \times (6 - 4))$

Use the following diagram to answer question 15.



15. Which of the following equations can be used to calculate the distance,  $d$ , between each ladder rung?
- A.  $d = 206 - 8(10) \div 7$
  - B.  $d = 206 - 8(10) \times 7$
  - C.  $d = \frac{7}{206 - 8(10)}$
  - D.  $d = \frac{206 - 8(10)}{7}$
32. Jenny notices that a music store is having a “No GST and 40% off the regular price” sale. If the regular price of a CD is \$15.99, then what is the maximum number of sale-priced CDs that Jenny can buy with her \$80 gift card?
- A. 8
  - B. 9
  - C. 11
  - D. 13

Use the following information to answer question 39.

Jennifer wants to buy a computer that costs \$2 000, including all taxes. She will make a down payment of \$500 and arrange to make 5 equal payments for the balance owing.

39. Which of the following expressions can Jennifer use to determine the amount of each of the 5 equal payments?

- A.  $(\$2\,000 - 500) \div 5$
- B.  $(\$2\,000 - 500) \times 5$
- C.  $(\$2\,000 \times 5) - 500$
- D.  $(\$2\,000 \div 5) - 500$

Use the following information to answer question 27.

Connie buys a horse for \$750 (including GST). She considers the two payment plans shown below.

**Plan 1** Pay \$150 now and \$25 each month  
**Plan 2** Pay \$200 now and \$55 each month

27. How many **fewer** monthly payments could Connie make if she selects Plan 2?

- A. 10
- B. 14
- C. 20
- D. 24

Use the following information to answer question 28.

The simplifications of two different expressions are shown below.

Expression X	Expression Y
$(3^2)^3 - 4^4 + 4^2 \times (-5)^2$	$2^6 \div 2^2 + (-5^2) \times 3$
$= 3^6 - 4^4 + 4^2 \times (-5)^2$	$= 2^3 + (-5^2) \times 3$
$= 729 - 256 + 16 \times 25$	$= 8 + (-25) \times 3$
$= 729 - 256 + 400$	$= 8 + (-75)$
$= 873$	$= -67$

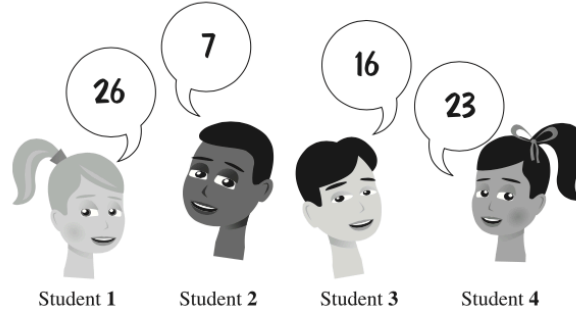
28. Which of the following statements about the simplifications above is true?

- A. The simplifications of both expressions are correct.
- B. The simplifications of both expressions are incorrect.
- C. The simplification of Expression X is correct and the simplification of Expression Y is incorrect.
- D. The simplification of Expression Y is correct and the simplification of Expression X is incorrect.

Use the following information to answer question 35.

Each of the four students shown below simplifies the following expression.

$$4 + 3 \times 5 - 6^4 \div (4 + 2)^3 \times 2$$



35. Which student correctly simplified the expression?

- A. Student 1
- B. Student 2
- C. Student 3
- D. Student 4

Use the following information to answer question 17.

The letters  $P$  and  $Q$  each represent an integer in the expression below.

$$2 \times P^3 - 6 \div Q$$

17. Which of the following values for  $P$  and  $Q$  would result in the lowest value for the expression shown above?

Row	$P$	$Q$
A.	-2	-2
B.	2	-2
C.	-2	2
D.	2	2

35. What is the value of the expression  $6 - \frac{1}{4} \div \frac{1}{2} - 2^3 \times 0.75$ ?

- A.  $-\frac{1}{2}$
- B.  $-\frac{1}{8}$
- C.  $\frac{1}{8}$
- D.  $\frac{1}{2}$