

## EXPRESSIONS QUIZ

Answer the following questions.

1. Which of the sets of terms below does NOT include like terms?

- A.  $9m, -9m, 7m$                       B.  $1p, -7p, 7p$   
C.  $30, -25, 25$                         D.  $6x, 6y, 6z$

2. Which is the correct simplified version of the expression  $32x + 8 - 34x$ ?

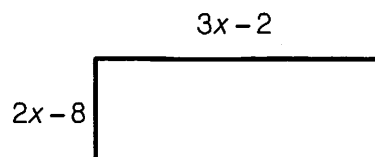
- A.  $66x + 8$                               B.  $74x$   
C.  $-2x + 8$                                 D.  $6x$

3. Which of the following is an example of a set of like terms?

- A.  $17y, y, 17$                             B.  $15x, -x, 33x$   
C.  $18, 21g, 24$                          D.  $-5x, -5y, -5xy$

4. Which of the following expressions represents the perimeter of the figure below?

- A.  $5x - 10$   
B.  $5x - 6$   
C.  $10x - 12$   
D.  $10x - 20$



### Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

Simplify the following expressions by distributing.

5.  $4(-w + 8)$                               6.  $2.5(4p - 16)$                               7.  $\frac{1}{2}(8 - 4g)$

Answer the questions below. Be sure to show work and justify your thinking.

8. Three students wrote expressions on their dry erase boards.

$$\begin{array}{c} 1 \\ -(5r - 3s + 1) \end{array}$$

$$\begin{array}{c} 2 \\ -5r + 3s + 1 \end{array}$$

$$\begin{array}{c} 3 \\ -5r + 3s - 1 \end{array}$$

Which of these students wrote equivalent expressions?

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

9. Simplify:

$$3(r + 5) - 4r$$

10. Simplify:

$$-7(3z + 5t - 3g)$$

11. Simplify:

$$28r - 9(2r + 6)$$

12. Which of the following properties is being used in line 2?

- 1  $(6x + 9) + 3x$
- 2  $6x + (9 + 3x)$
- 3  $6x + (3x + 9)$
- 4  $(6x + 3x) + 9$
- 5  $9x + 9$

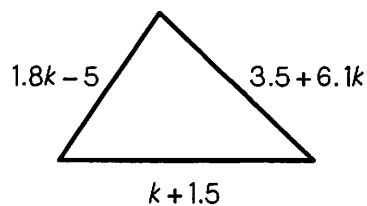
- A. Distributive  
 B. Combine Like Terms  
 C. Associative Property of Addition  
 D. Commutative Property of Addition

13. Which of the following properties is being used in line 5?

- 1  $(-2x + 10) + 6x$
- 2  $-2x + (10 + 6x)$
- 3  $-2x + (6x + 10)$
- 4  $(-2x + 6x) + 10$
- 5  $4x + 10$

- A. Distributive  
 B. Combine Like Terms  
 C. Associative Property of Multiplication  
 D. Commutative Property of Multiplication

14. Write an expression for the perimeter of the triangle below.



15. Simplify an expression for the area of the rectangle shown below.

