

READY, SET, GO!

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

### READY

Topic: Distributive Property

**Simplify. First use the distributive property and then combine the like terms.**

Example:

$$3x(4x + 1) + 2(4x + 1) \rightarrow (12x^2 + 3x) + (8x + 2) \rightarrow 12x^2 + [3x + 8x] + 2 \rightarrow \underbrace{12x^2 + 11x + 2}_{\text{like terms}} \rightarrow \text{Simplified form}$$

1.  $2x(5x + 3) + 7(5x + 3)$

2.  $8x(x + 1) + 2(x + 1)$

3.  $6x(x - 10) - 1(x - 10)$

4.  $1x(3x + 4) + 5(3x + 4)$

5.  $3x(8x + 3) - 4(8x + 3)$

6.  $5x(2x + 6) + 2(2x + 6)$

7.  $7x(-5x + 2) - 13(-5x + 2)$

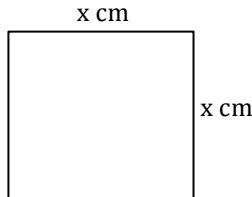
8.  $-4x(12x + 3) + 3(12x + 3)$

### SET

Topic: Comparing Area and perimeter

**Calculate the area and perimeter of each figure below. The area may be written as a product. Include the correct unit on your answer. (Your answers will contain a variable.)**

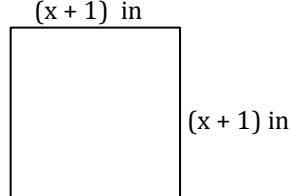
9.



a. Perimeter: \_\_\_\_\_

b. Area: \_\_\_\_\_

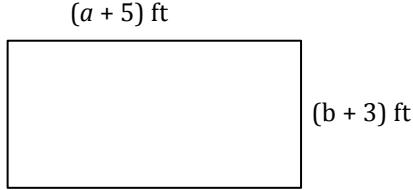
10.



a. Perimeter: \_\_\_\_\_

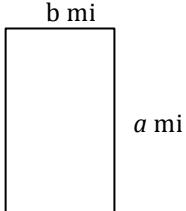
b. Area: \_\_\_\_\_

11.



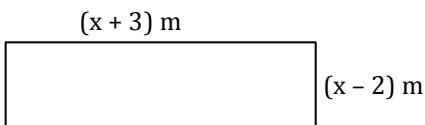
- a. Perimeter: \_\_\_\_\_  
b. Area: \_\_\_\_\_

12.



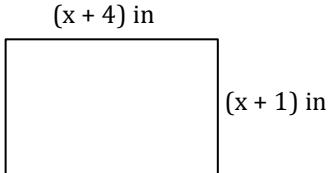
- a. Perimeter: \_\_\_\_\_  
b. Area: \_\_\_\_\_

13.



- a. Perimeter: \_\_\_\_\_  
b. Area: \_\_\_\_\_

14.



- a. Perimeter: \_\_\_\_\_  
b. Area: \_\_\_\_\_

15. Compare the perimeter to the area in each of problems (9-14).

In what way are the numbers and units in the perimeters and areas different?

## GO

Topic: Greatest Common Factor

Find the GCF for the given terms.

16.  $15abc^2$  and  $25a^3bc$

17.  $12x^5y$  and  $32x^6y$

18.  $17pqr$  and  $51pqr^3$

19.  $7x^2$  and  $21x$

20.  $6x^2$ ,  $18x$ , and  $-12$

21.  $4x^2$  and  $9x$

22.  $11x^2y^2$ ,  $33x^2y$ , and  $3xy^2$

23.  $16a^2b$ ,  $24ab$ , and  $16b$

24.  $49s^2t^2$  and  $36s^2t^2$