



NAME _____

DATE _____

PERIOD _____

Unit 6, Lesson 4**Practice Problems**

1. Draw a square with side length 7 cm.
 - a. Predict the perimeter and the length of the diagonal of the square.
 - b. Measure the perimeter and the length of the diagonal of the square.
 - c. Describe how close the predictions and measurements are.

2. Find the products.
 - a. $(100) \cdot (-0.09)$
 - b. $(-7) \cdot (-1.1)$
 - c. $(-7.3) \cdot (5)$
 - d. $(-0.2) \cdot (-0.3)$

3. Here are three stories:
 - A family buys 6 tickets to a show. They also pay a \$3 parking fee. They spend \$27 to see the show.
 - Diego has 27 ounces of juice. He pours equal amounts for each of his 3 friends and has 6 ounces left for himself.
 - Jada works for 6 hours preparing for the art fair. She spends 3 hours on a sculpture and then paints 27 picture frames.

Here are three equations:

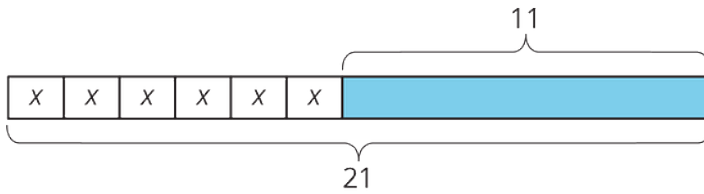
- $3x + 6 = 27$
 - $6x + 3 = 27$
 - $27x + 3 = 6$
- a. Decide which equation represents each story. What does x represent in each equation?
 - b. Find the solution to each equation. Explain or show your reasoning.
 - c. What does each solution tell you about its situation?

NAME _____

DATE _____

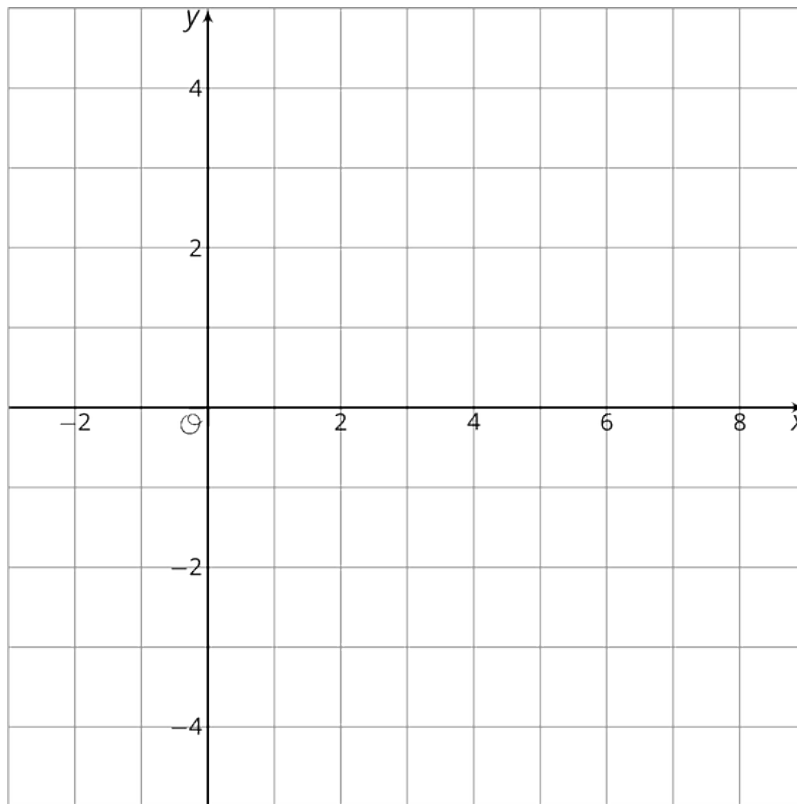
PERIOD _____

4. Here is a diagram and its corresponding equation. Find the solution to the equation and explain your reasoning.



$$6x + 11 = 21$$

5. a. Plot these points on the coordinate plane:
 $A = (3, 2)$, $B = (7.5, 2)$, $C = (7.5, -2.5)$, $D = (3, -2)$



- b. What is the vertical difference between D and A ?
- c. Write an expression that represents the vertical distance between B and C .