

## Lesson 15 Practice Problems

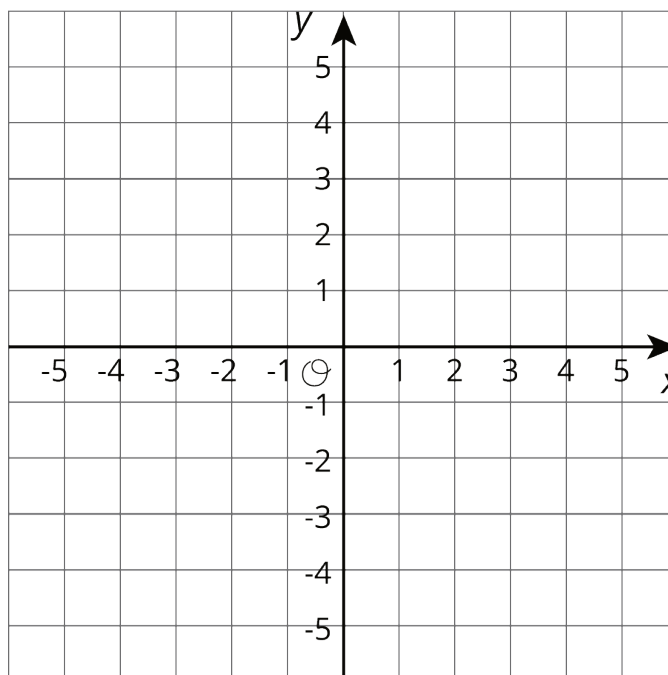
1. The coordinates of a rectangle are  $(3, 0)$ ,  $(3, -5)$ ,  $(-4, 0)$  and  $(-4, -5)$

a. What is the length and width of this rectangle?

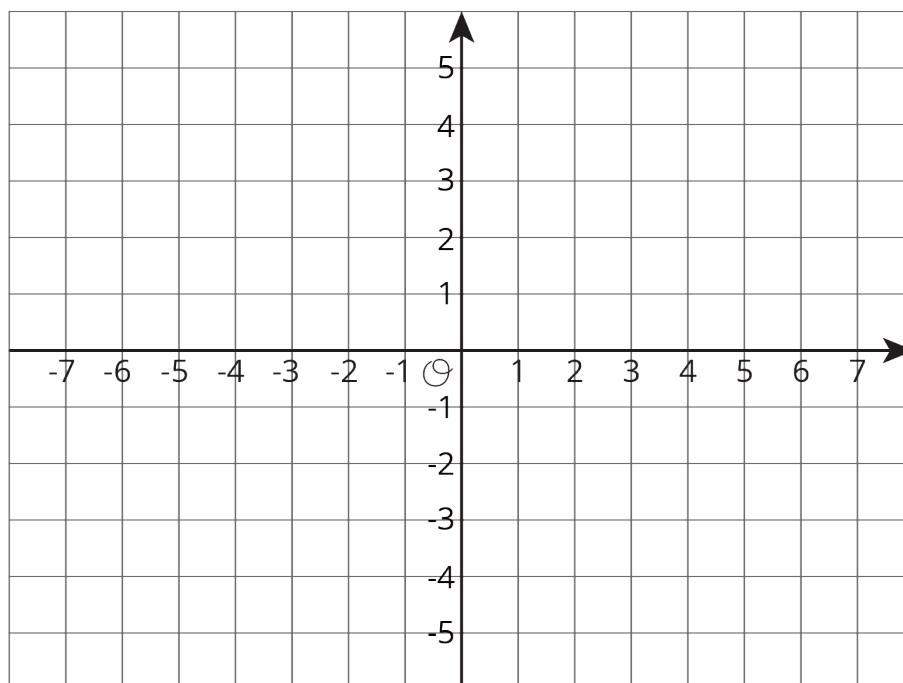
b. What is the perimeter of the rectangle?

c. What is the area of the rectangle?

2. Draw a square with one vertex on the point  $(-3, 5)$  and a perimeter of 20 units. Write the coordinates of each other vertex.



3. a. Plot and connect the following points to form a polygon.  
 $(-3, 2), (2, 2), (2, -4), (-1, -4), (-1, -2), (-3, -2), (-3, 2)$



- b. Find the perimeter of the polygon.

4. For each situation, select **all** the equations that represent it. Choose one equation and solve it.

- a. Jada's cat weighs 3.45 kg. Andre's cat weighs 1.2 kg more than Jada's cat. How much does Andre's cat weigh?

$$x = 3.45 + 1.2 \quad x = 3.45 - 1.2 \quad x + 1.2 = 3.45 \quad x - 1.2 = 3.45$$

- b. Apples cost \$1.60 per pound at the farmer's market. They cost 1.5 times as much at the grocery store. How much do the apples cost per pound at the grocery store?

$$y = (1.5) \cdot (1.60) \quad y = 1.60 \div 1.5 \quad (1.5)y = 1.60 \quad \frac{y}{1.5} = 1.60$$

(From Unit 6, Lesson 4.)