

## Area & Perimeter Worksheets (Rectangles)

The area of Betsy's rectangular sandbox is 20 square feet. The longer side measures 5 feet. The sandbox at the park is twice as long and twice as wide as Betsy's.

- a. Draw and label a diagram of Betsy's sandbox. What is its perimeter?
- b. Draw and label a diagram of the sandbox at the park. What is its perimeter?

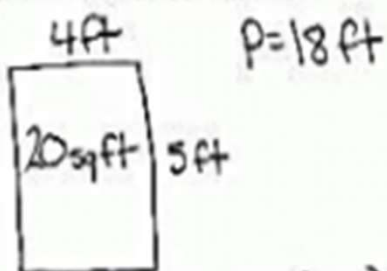
c. What is the relationship between the two perimeters?

d. Find the area of the park's sandbox using the formula  $A = l \times w$ .

## Area & Perimeter Worksheets (Rectangles)

The area of Betsy's rectangular sandbox is 20 square feet. The longer side measures 5 feet. The sandbox at the park is twice as long and twice as wide as Betsy's.

- a. Draw and label a diagram of Betsy's sandbox. What is its perimeter?



$$A \div l = w$$

$$20 \div 5 = 4$$

$$w = 4 \text{ ft}$$

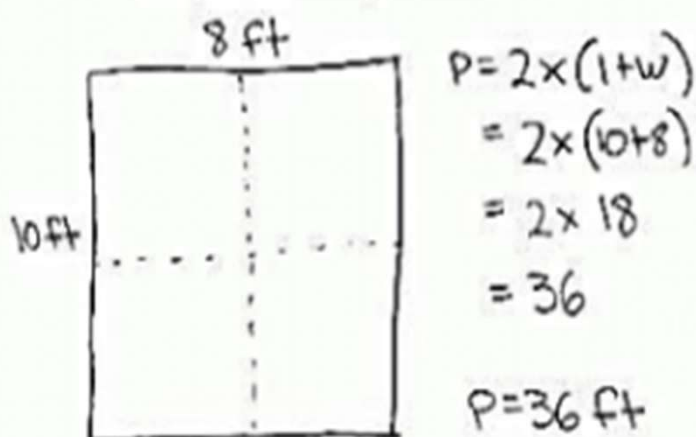
$$P = 2 \times (l + w)$$

$$= 2 \times (5 + 4)$$

$$= 2 \times 9$$

$$= 18$$

- b. Draw and label a diagram of the sandbox at the park. What is its perimeter?



$$P = 2 \times (l + w)$$

$$= 2 \times (10 + 8)$$

$$= 2 \times 18$$

$$= 36$$

$$P = 36 \text{ ft}$$

- c. What is the relationship between the two perimeters?

$$\text{Betsy's} = 18 \text{ ft}$$

$$\text{Park's} = 36 \text{ ft}$$

The perimeter of the park's sandbox is double the perimeter of Betsy's Sandbox.

- d. Find the area of the park's sandbox using the formula,  $A = l \times w$ .

$$A = l \times w$$

$$A = 10 \times 8$$

$$= 80$$

$$A = 80 \text{ sq ft}$$