Lesson 1: The Area of Parallelograms Through Rectangle Facts

Problem Set

Draw and label the height of each parallelogram.

1. 2.

base

base

Calculate the area of each parallelogram. The figures are not drawn to scale.

1. 4.

$$1.2 ft.$$

$$13.4 ft.$$

$$12.8 ft.$$

$$6 cm$$

$$13 cm$$

$$8 cm$$

1. 6.

$$3\frac{1}{2} m$$

$$3\frac{5}{6} m$$

$$4\frac{1}{3} m$$

$$5\frac{1}{4} in.$$

$$3\frac{5}{6} in.$$

$$7\frac{2}{3} in.$$

$$2\frac{1}{2} in.$$

1. Brittany and Sid were both asked to draw the height of a parallelogram. Their answers are below.

 Brittany Sid

base

height

base

height

Are both Brittany and Sid correct? If not, who is correct? Explain your answer.

1. Do the rectangle and parallelogram below have the same area? Explain why or why not.

$$15 ft.$$

$$8 ft.$$

$$8 ft.$$

$$15 ft.$$

$$10 ft.$$

1. A parallelogram has an area of $20.3 cm^{2}$ and a base of $2.5 cm$. Write an equation that relates the area to the base and height, $h$. Solve the equation to determine the height of the parallelogram.