

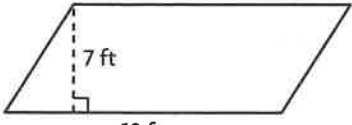
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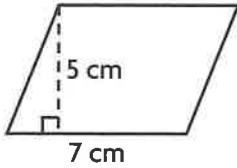
Area of Parallelograms



COMMON CORE STANDARD—6.G.A.1
Solve real-world and mathematical problems involving area, surface area, and volume.

Find the area of the figure.

1.  $A = bh$
 $A = 18 \times 7$
 $A = 126 \text{ ft}^2$

2. 
 _____ cm^2

Find the unknown measurement for the figure.

3. parallelogram
 $A = 9.18 \text{ m}^2$
 $b = 2.7 \text{ m}$
 $h = \underline{\hspace{2cm}}$

4. parallelogram
 $A = \underline{\hspace{2cm}}$
 $b = 4\frac{3}{10} \text{ m}$
 $h = 2\frac{1}{10} \text{ m}$

5. square
 $A = \underline{\hspace{2cm}}$
 $s = 35 \text{ cm}$

6. parallelogram
 $A = 6.3 \text{ mm}^2$
 $b = \underline{\hspace{2cm}}$
 $h = 0.9 \text{ mm}$

Problem Solving



7. Ronna has a sticker in the shape of a parallelogram. The sticker has a base of 6.5 cm and a height of 10.1 cm. What is the area of the sticker?

8. A parallelogram-shaped tile has an area of 48 in.^2 . The base of the tile measures 12 in. What is the measure of its height?

9. **WRITE** *Math* Copy the two triangles and the square in Exercise 15 on page 536. Show how you found the area of each piece. Draw the parallelogram formed when the three figures are put together. Calculate its area using the formula for the area of a parallelogram.

Lesson Check (6.G.A.1, 6.EE.A.2c, 6.EE.B.7)

1. Cougar Park is shaped like a parallelogram and has an area of $\frac{1}{16}$ square mile. Its base is $\frac{3}{8}$ mile. What is its height?
2. Square County is a square-shaped county divided into 16 equal-sized square districts. If the side length of each district is 4 miles, what is the area of Square County?

Spiral Review (6.EE.B.5, 6.EE.B.8, 6.EE.C.9)

3. Which of the following values of y make the inequality $y < -4$ true?
 $y = -4$ $y = -6$ $y = 0$ $y = -8$ $y = 2$
4. On a winter's day, 9°F is the highest temperature recorded. Write an inequality that represents the temperature t in degrees Fahrenheit at any time on this day.

5. In 2 seconds, an elevator travels 40 feet. In 3 seconds, the elevator travels 60 feet. In 4 seconds, the elevator travels 80 feet. Write an equation that gives the relationship between the number of seconds x and the distance y the elevator travels.
6. The linear equation $y = 4x$ represents the number of bracelets y that Jolene can make in x hours. Which ordered pair lies on the graph of the equation?

