# **Chapter Review**



#### Review Key Vocabulary

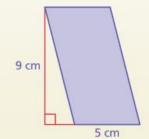
polygon, p. 152

composite figure, p. 172

#### **Review Examples and Exercises**

## Areas of Parallelograms (pp. 152-157)

Find the area of the parallelogram.



A = bhWrite formula.

Substitute 5 for b and 9 for h.

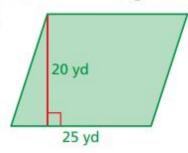
= 45Multiply.

The area of the parallelogram is 45 square centimeters.

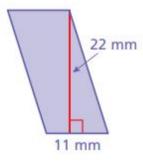
### Exercises

#### Find the area of the parallelogram.

1.



2.



Areas of Triangles (pp. 158–163)

Find the area of the triangle.

$$A = \frac{1}{2} bh$$

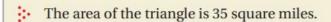
Write formula.

$$=\frac{1}{2}(10)(7)$$

Substitute.

$$= 35$$

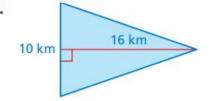
Multiply.

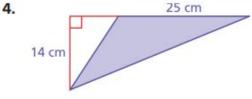


#### Exercises

Find the area of the triangle.

3.





10 mi

#### 4.3 Areas of Trapezoids (pp. 166–173)

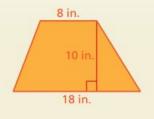
Find the area of the trapezoid.

$$A = \frac{1}{2} \mathbf{h} (\mathbf{b}_1 + \mathbf{b}_2)$$

Write formula.

$$=\frac{1}{2}(10)(8+18)$$
 Substitute.

$$=\frac{1}{2}(10)(26)=130$$
 Multiply.

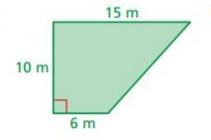


The area of the trapezoid is 130 square inches.

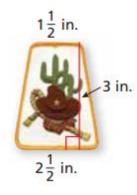
# Exercises

## Find the area of the trapezoid.

5.

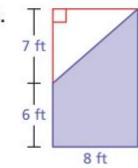


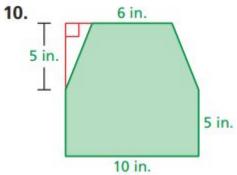
6.



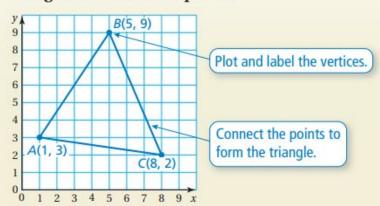
Find the area of the figure.

8.





a. The vertices of a triangle are A(1,3), B(5,9), and C(8,2). Draw the triangle in a coordinate plane.



b. The vertices of a rectangle are F(2, 6), G(8, 6), H(8, 1), and J(2, 1). Draw the rectangle in a coordinate plane and find its perimeter.

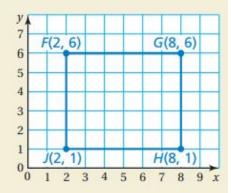
Draw the rectangle and use the vertices to find its dimensions.

The length is the horizontal distance between F(2, 6) and G(8, 6), which is the difference of the *x*-coordinates.

length = 
$$8 - 2 = 6$$
 units

The width is the vertical distance between G(8, 6) and H(8, 1), which is the difference of the *y*-coordinates.

width 
$$= 6 - 1 = 5$$
 units



So, the perimeter of the rectangle is 2(6) + 2(5) = 22 units.

## Exercises

Draw the polygon with the given vertices in a coordinate plane.

Do these on your grid. Label them 11 and 14.

**14.** 
$$K(3, 3\frac{1}{2}), L(5, 7), M(8, 7), N(6, 3\frac{1}{2})$$

Find the perimeter and the area of the polygon with the given vertices.

**15.** *P*(4, 3), *Q*(4, 7), *R*(9, 7), *S*(9, 3)

Perimeter: \_\_\_\_\_ Area: \_\_\_\_\_

**17.** *W*(11, 2), *X*(11, 8), *Y*(14, 8), *Z*(14, 2)

Perimeter: \_\_\_\_\_ Area: \_\_\_\_\_