DATE

## Classifying Quadrilaterals

A quadrilateral is any polygon that has 4 sides. There are many kinds of quadrilaterals, including:

Trapezoid: a quadrilateral with exactly 1 pair of parallel sides	Rectangle: a quadrilateral with 2 pairs of parallel sides and 4 right angles
Rhombus: a quadrilateral with 4 sides that are all the same length	Square: a quadrilateral with 4 right angles and 4 sides that are all the same length
Parallelogram: a quadrilateral with 2 pairs of pa	rallel sides

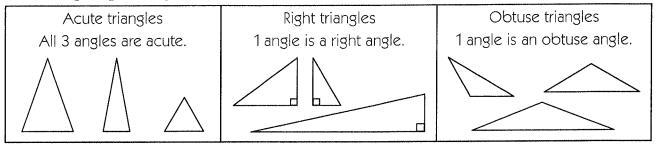
**1** Look carefully at the figures below. Decide how many right angles, pairs of congruent sides, and pairs of parallel sides each has. Then circle the word or words that say what kind of figure it is. You might circle more than one word for some figures.

Figure	Right Angles?	Pairs of Congruent Sides?	Pairs of Parallel Sides?	Circle the word(s) that describe(s) the figure.	
a				trapezoid rectangle rhombus square parallelogram	
b				trapezoid rectangle rhombus square parallelogram	
C				trapezoid rectangle rhombus square parallelogram	

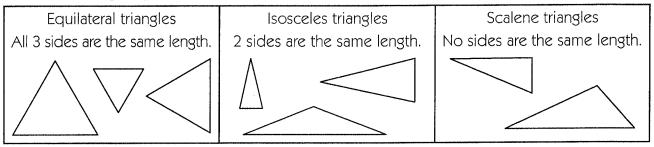
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### **Classifying Triangles**

You can group triangles by the size of their angles.



You can also group triangles by the lengths of their sides.



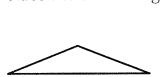
1 Look carefully at the triangles below and fill in the chart.

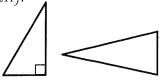
Triangle	Acute Angles?	Right Angles?	Obtuse Angles?	Congruent Sides?	What Kind? (circle as many as apply)	
a					acute right obtuse	equilateral isosceles scalene
b					acute right obtuse	equilateral isosceles scalene

DATE

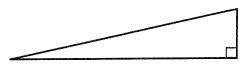
## **Identifying & Drawing Triangles**

**1** Circle the *right triangle* (one right angle) that is also an *isosceles triangle* (two sides the same length).









**2** Circle the *right triangle* (one right angle) that is also a *scalene triangle* (no sides the same length).



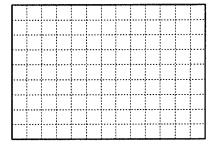




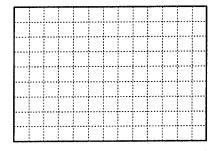


**3** Draw the triangles described below.

**a** An obtuse isosceles triangle



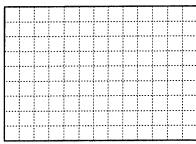
**b** An acute isosceles triangle





#### CHALLENGE

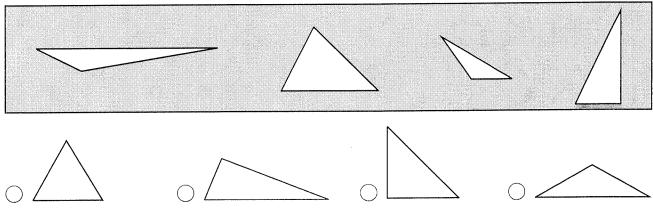
**4** Lawrence said he drew a right obtuse triangle. Rosa said that was impossible. Explain why Rosa is correct.



DATE

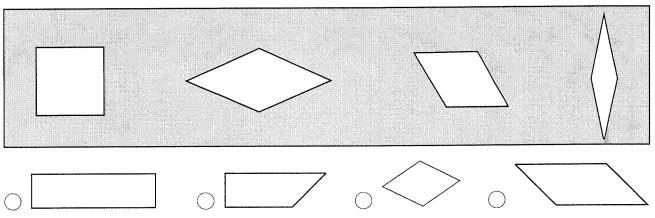
## Classifying Triangles & Quadrilaterals

**1a** All of the triangles in the box have something in common. Fill in the circle next to the triangle that belongs with them.

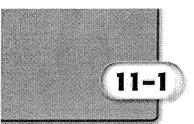


- **b** How do you know the triangle you picked belongs in the group?
- **C** What is the name for this kind of triangle?

**2a** All of the quadrilaterals in the box have something in common. Fill in the circle next to the quadrilateral that belongs with them.



- **b** How do you know the quadrilateral you picked belongs in the group?
- **C** What is the name for this kind of quadrilateral?



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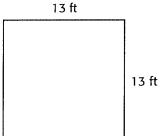
#### **Homework Practice**

5MG1.4

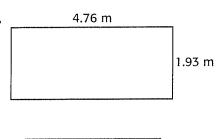
Perimeter

Find the perimeter of each square or rectangle.

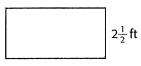
1.



2.

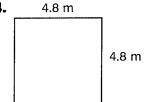


3.



11 ft

4.

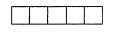


**5.** Neil made a wooden, rectangular picture frame that is 14 inches long and 10 inches wide. If he charges \$2.50 per foot, how much will he sell this frame for?



Draw a three-dimensional figure whose top, front, and side views are shown. (Lesson 10–8)

6.



Top





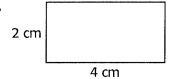
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### **Homework Practice**

### Areas of Rectangles

#### Find the area of each rectangle.

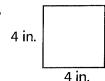
1.



2.



3.



4. rectangle

$$\ell = 3 \text{ yd}$$

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

5. rectangle

$$\ell = 4$$
 in.

$$W = 5$$
 in.

6. rectangle

$$\ell = 32 \text{ mm}$$

$$w = 46 \text{ mm}$$

#### Find the unknown width.

7. rectangle

 $\ell = 3$  in.

A = 6 square inches

W =

8. rectangle

 $\ell = 45 \text{ mm}$ 

A = 3,150 square millimeters

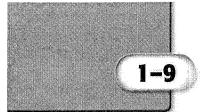
w = \_\_\_\_

# Spiral Review

#### Solve.

**9.** Mike's room is 12 feet by 15 feet. How many square feet of carpeting does he need to cover the entire floor?

**10.** Helen is planting tomatoes in her garden. She can place 3 plants per square foot. How many plants does she need if her garden measures 7 ft by 6 ft?



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### **Homework Practice**

5AF1.2, 5MG1.4

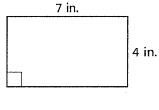
Algebra: Area Formulas

Solve.

1. Find the area of a square with a side length of 14 inches.

#### Find the area of each rectangle.

2.



3.

12 ft	_
	2 ft

Find the area of the following squares and rectangles.

- 4. a square with sides of 5 ft \_\_\_\_\_
- 5. a rectangle with a length of 13 inches and a width of 3 inches \_\_\_\_\_
- 6. a square with sides of 8 ft \_\_\_\_\_
- 7. a rectangle with a length of 14 inches and a width of 4 inches \_\_\_\_\_
- 8. a square with sides measuring 9 ft \_\_\_\_\_

### Spiral Review

#### Solve each equation. (Lesson 1-8)

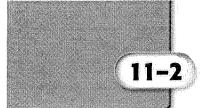
**9.** 
$$m + 15 = 27$$

**10.** 
$$n + 35 = 42$$

**12.** 
$$g \div 3 = 4$$
 \_\_\_\_\_

**14.** 
$$12 \div c = 6$$
 \_\_\_\_\_

**16.** 
$$r - 7 = 2$$



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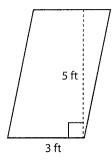
#### **Homework Practice**

5MG1.1, 5MG1.4

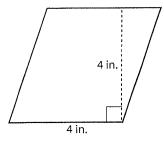
Area of Parallelograms

Find the area of each parallelogram.

1.



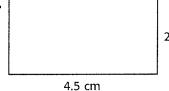
2.



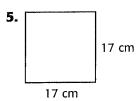
3. What is the area of a parallelogram with a base of 20 inches and a height of 8.5 inches?

## Spiral Review

Find the perimeter of each square or rectangle. (Lesson 11-1)



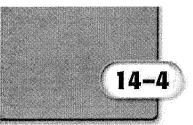
2.3 cm



**6.** What is the measurement of z if the perimeter of the rectangle is 30 cm?

 _
1
Z

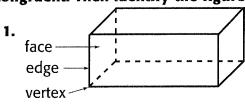
12 cm



### **Homework Practice**

Geometry: Three-Dimensional Figures

Describe parts of each figure that are perpendicular and congruent. Then identify the figure.



2.

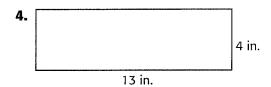


3.

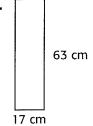


## Spiral Review

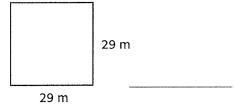
Find the area of each rectangle. (Lesson 14-3)



5.



6.



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## Faces, Edges & Vertices

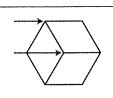
**1** Use each word one time to show what part of the cube the arrows are pointing to in each picture.

edges

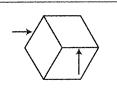
faces

vertices

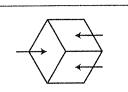
а



b \_\_\_\_



C



2 Fill in the table to describe and name each three-dimensional figure.

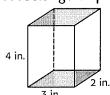
	Faces	Edges	Vertices	Shape Name
ex	6	12	8	cube
a				
b				
c				
d				
e				
f				

### **Homework Practice**

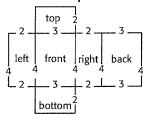
#### Surface Areas of Prisms

The **surface srea** (SA) of a 3-dimensional figure is the sum of the area of all its faces.

A rectangular prism has 6 faces.



Unfold the prism to examine the 6 faces.



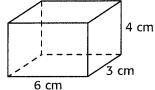
Find the area of each of the 6 faces, and add.

Face	Area	In.2
front	$3 \times 4$	12
back	$3 \times 4$	12
top	3 × 2	6
bottom	$3 \times 2$	6
left	$2 \times 4$	8
right	2 × 4	8
	Total	52

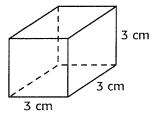
The surface area of this rectangular prism is 52 in.<sup>2</sup>

Find the surface area of each figure.

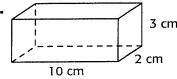
1.



2.



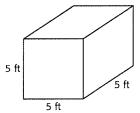
3.



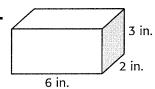
## Spiral Review

Find the volume of each prism. (Lesson 14-6)

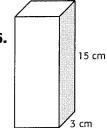
4.



5



6.



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### Surface Area & Volume

1 Each figure below is built out of centimeter cubes. Find the surface area and volume of each one.

ex		a		
Surface Area	Volume	Surface Area	Volume	
2 × 2 × 2 = 8 4 × 2 × 4 = 32 8 + 32 = 40 sq. cm.	2 × 2 × 4 = 16 cubic cm.			
b		С		
Surface Area Volume		Surface Area	Volume	



#### CHALLENGE

**2** Find the volume of this triangular prism.

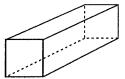
#### 5MG2.3

## **Homework Practice**

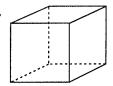
Drawing Three-Dimensional Figures

Draw a top, a side, and a front view of each figure.

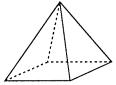
1.



2.



3.

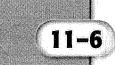




Find the value of x in each quadrilateral. (Lesson 10-7)

**7.** 90, 90, *x*°, 90

**8.** 120°, 60°, 120°, *x*°



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Date.

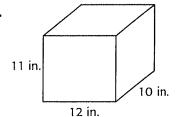
#### **Homework Practice**

5MG1.3, 5MG1.4

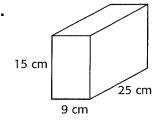
Volume of Rectangular Prisms

Find the volume of each prism.

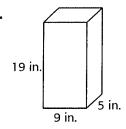
1.



2.



3.



- **4.** What is the volume of a rectangular box that has a base of 50 in<sup>2</sup> and a height of 12 inches?
- **5.** Bernice made a rectangular wooden tool box that has a base of 50 cm<sup>2</sup> and a height of 35 cm. What is the volume?

## Spiral Review

Use any strategy to solve. (Lesson 11-5)

- **6.** Ali has a loaf of bread that he needs to slice for his family's dinner. How many cuts does he need to make if he needs 6 equal-size slices of bread?
- 7. Maggie's older sister is repaying her student loans. Her loans, including interest, total \$9,985. How much are her monthly payments if she plans to repay the loans in 8 years?

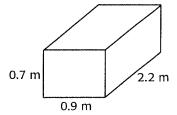
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### **Homework Practice**

Surface Area of Rectangular Prisms

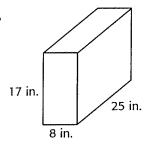
Find the surface area of each rectangular prism.

1.

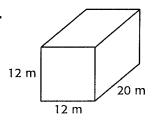


Name \_

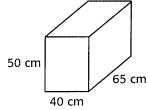
2.



3.



4.

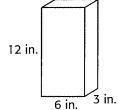


**5.** Alejandra wants to find the surface area of her aquarium. It does not have a top, and it measures 30 inches long by 20 inches high by 14 inches wide. What is the surface area?

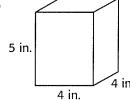
## Spiral Review

Find the volume of each prism. (Lesson 11-6)

6.



7.



8.

