Homework

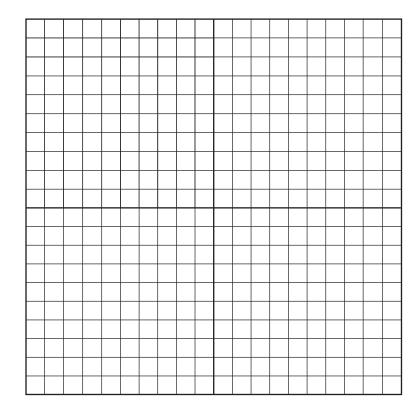
Solve.

- 1 On the grid below, draw and label an aquarium shaped like a rectangular prism with a volume of 8,000 cubic inches. (Hint: A cube is a rectangular prism, and $2 \times 2 \times 2 = 8$.)
- Calculate the perimeter of the top of your aquarium. Then calculate the area of its base.

P = _____

A = _____

3 The rectangular prism you drew for Problem 1 is not the only rectangular prism that has a volume of 8,000 cubic inches. Other prisms are possible. On the grid below, use a new color and draw a different rectangular prism that has a volume of 8,000 cubic inches.



UNIT 8 LESSON 17

Complete the pattern.

Remembering

1
$$22 \times 10^1 = 22 \times 10 =$$

$$2 412 \times 10^1 = \underline{} = 4,120$$

$$22 \times 10^2 = 22 \times 100 =$$

$$412 \times 10^2 = 412 \times 100 =$$

$$22 \times 10^3 = 22 \times 1,000 =$$

$$412 \times 10^3 = \underline{\hspace{1cm}} = 412,000$$

$$22 \times 10^4 = 22 \times 10,000 =$$

$$22 \times 10^4 = 22 \times 10,000 =$$
 $412 \times 10^4 = 412 \times 10,000 =$

$$3 56 \times 10^1 = \underline{\hspace{1cm}} = 560$$

4
$$8 \times 10^1 = 8 \times 10 =$$

$$56 \times 10^2 = \underline{\hspace{1cm}} = 5,600$$

$$8 \times 10^2 = 8 \times 100 =$$

$$56 \times 10^3 = \underline{\hspace{1cm}} = 56,000$$

$$8 \times 10^3 = 8 \times 1,000 =$$

$$56 \times 10^4 =$$
 $= 560,000$ $8 \times 10^4 = 8 \times 10,000 =$

$$8 \times 10^4 = 8 \times 10,000 =$$

Draw a shape that fits the description. Mark all congruent segments and right angles.

- **5** a triangle with a right angle and exactly two congruent sides
- 6 a concave octagon with all sides congruent

- **7** Stretch Your Thinking List the dimensions of two different rectangular prisms in which each has a volume of 6,600 cubic centimeters.