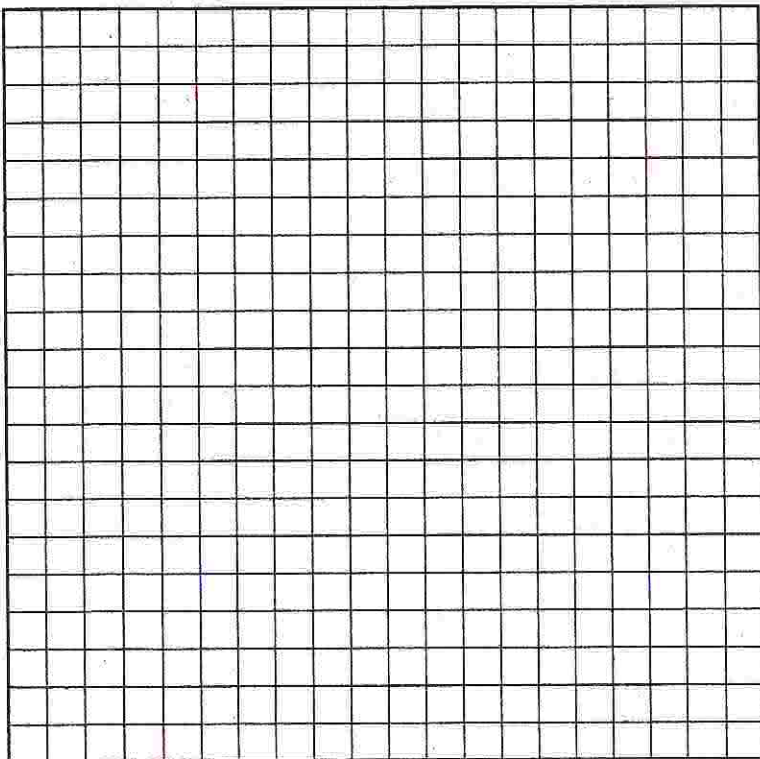


Homework

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 $2 \times 2 \times 2 = 8$.)
2. 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.



Remembering

Complete the pattern.

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

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

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

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

2. $412 \times 10^1 =$ _____ $= 4,120$

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

$412 \times 10^3 =$ _____ $= 412,000$

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

3. $56 \times 10^1 =$ _____ $= 560$

$56 \times 10^2 =$ _____ $= 5,600$

$56 \times 10^3 =$ _____ $= 56,000$

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

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

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

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

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

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.
