## 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.
$P=$ $\qquad$
$A=$ $\qquad$
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.

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## Complete the pattern.

(1) $22 \times 10^{1}=22 \times 10=$ $\qquad$ (2) $412 \times 10^{1}=\square=4,120$
$22 \times 10^{2}=22 \times 100=$ $\qquad$
$22 \times 10^{3}=22 \times 1,000=$ $\qquad$ $412 \times 10^{3}=$ $\qquad$ $=412,000$
$22 \times 10^{4}=22 \times 10,000=$ $\qquad$ $412 \times 10^{4}=412 \times 10,000=$ $\qquad$
(3) $56 \times 10^{1}=$ $\qquad$ $=560$
(4) $8 \times 10^{1}=8 \times 10=$ $\qquad$
$56 \times 10^{2}=$ $\qquad$ $=5,600$ $8 \times 10^{2}=8 \times 100=$ $\qquad$
$56 \times 10^{3}=$ $\qquad$ $=56,000$ $8 \times 10^{3}=8 \times 1,000=$ $\qquad$
$56 \times 10^{4}=$ $\qquad$ $=560,000$
$8 \times 10^{4}=8 \times 10,000=$ $\qquad$

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.
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