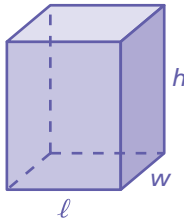# REVIEW: Volumes of Rectangular Prisms

Name _____

Key Concept and Vocabulary

Area of base

Volume

$V = Bh$
$\quad = \ell \times w \times h$
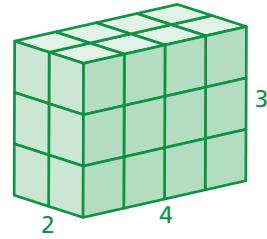
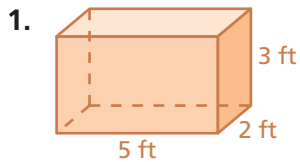## Visual Model

$V = \ell \times w \times h$
$\quad = 2 \times 4 \times 3$
$\quad = 24 \text{ units}^3$

Skill Example

1.

3 ft
2 ft
5 ft

$S = 5 \times 2 \times 3$
$\quad = 30 \text{ ft}^3$

Application Example

2. An air mattress is 6 feet long, 4 feet wide, and 1 foot tall. What is the volume of the air mattress?
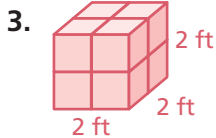
$V = \ell wh$
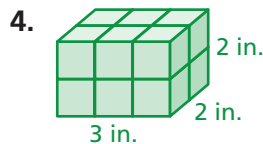$\quad = 6 \times 4 \times 1$
$\quad = 24$

The volume is 24 cubic feet.

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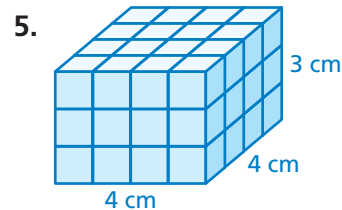
Check your answers at BigIdeasMath.com.
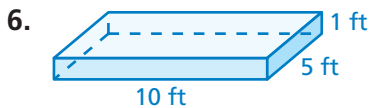
Find the volume of the rectangular prism.

3.

2 ft
2 ft
2 ft

$V =$ _____

4.

2 in.
2 in.
3 in.

$V =$ _____

5.

3 cm
4 cm
4 cm

$V =$ _____

6.

1 ft
5 ft
10 ft

$V =$ _____

7.

3 cm
9 cm
6 cm

$V =$ _____

8.

3 in.
4 in.
5 in.
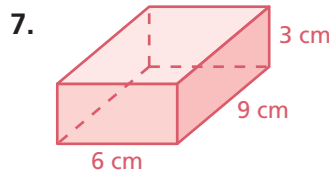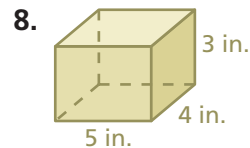
$V =$ _____

9. AQUARIUM How much water is needed to fill the aquarium? _____

10. AQUARIUM There are about 7.5 gallons in 1 cubic foot. How many gallons of water does the aquarium hold? _____

2 ft
2 ft
4 ft

NO FISHING