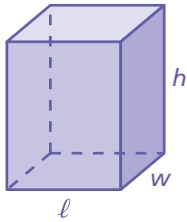


# REVIEW: Volumes of Rectangular Prisms

Name \_\_\_\_\_

## Key Concept and Vocabulary



Area of base

$$V = Bh$$

$$= \ell \times w \times h$$

Volume

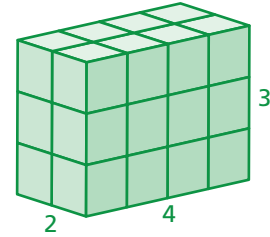


## Visual Model

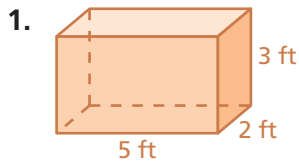
$$V = \ell \times w \times h$$

$$= 2 \times 4 \times 3$$

$$= 24 \text{ units}^3$$



## Skill Example



$$S = 5 \times 2 \times 3$$

$$= 30 \text{ ft}^3$$

## 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?

$$V = \ell wh$$

$$= 6 \times 4 \times 1$$

$$= 24$$

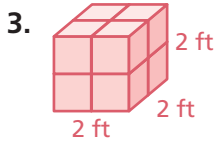
••• The volume is 24 cubic feet.

## PRACTICE MAKES PURR-FECT®

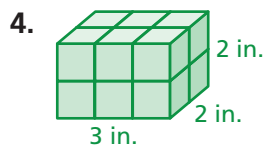


Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

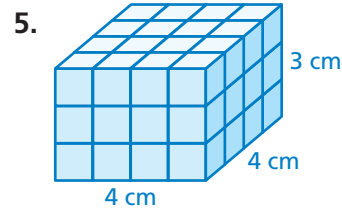
Find the volume of the rectangular prism.



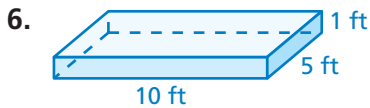
$$V = \underline{\hspace{2cm}} \quad 8 \text{ ft}^3$$



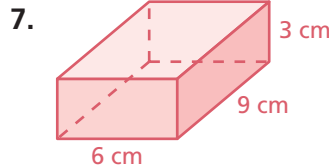
$$V = \underline{\hspace{2cm}} \quad 12 \text{ in.}^3$$



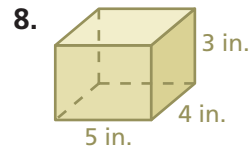
$$V = \underline{\hspace{2cm}} \quad 48 \text{ cm}^3$$



$$V = \underline{\hspace{2cm}} \quad 50 \text{ ft}^2$$



$$V = \underline{\hspace{2cm}} \quad 162 \text{ cm}^3$$



$$V = \underline{\hspace{2cm}} \quad 60 \text{ in.}^3$$

9. **AQUARIUM** How much water is needed to fill the aquarium? 16 ft<sup>3</sup>

10. **AQUARIUM** There are about 7.5 gallons in 1 cubic foot. How many gallons of water does the aquarium hold? about 120 gal

