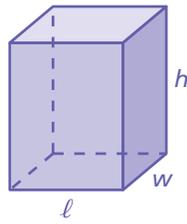# REVIEW: Volumes of Prisms

Name _____

Key Concept and Vocabulary

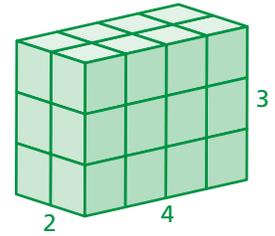Base

$V = Bh$
$= \ell wh$

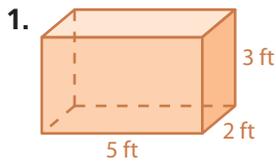Volume

Visual Model

Volume of a Rectangular Prism

$V = 2 \cdot 4 \cdot 3$
$= 24$ units^3

Skill Example
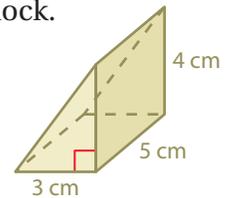
1.

3 ft
2 ft
5 ft

$V = 5 \cdot 2 \cdot 3$
$= 30$ ft^3

Application Example

2. Find the volume of the block.

$V = Bh$

$= \left(\dfrac{1}{2} \cdot 3 \cdot 4\right) \cdot 5$

$= 30$ cm^3

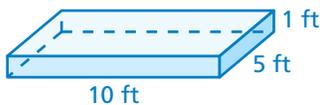4 cm
5 cm
3 cm

The volume is 30 cubic centimeters.

PRACTICE MAKES *PURR*-FECT ™

Check your answers at BigIdeasMath.com.

Find the volume of the prism.
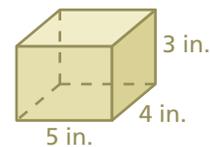
3. Rectangular Prism

1 ft
5 ft
10 ft

$V =$ ___50 ft^3___

4. Rectangular Prism

3 cm
9 cm
6 cm
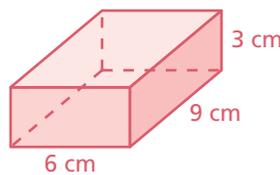
$V =$ ___162 cm^3___

5. Rectangular Prism

3 in.
4 in.
5 in.

$V =$ ___60 in.^{3}___

6. Triangular Prism

4 m
6 m
7 m
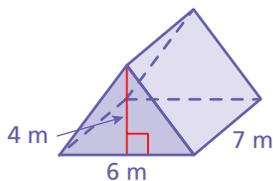
$V =$ ___84 m^3___

7. Triangular Prism

4 cm
6 cm
3 cm
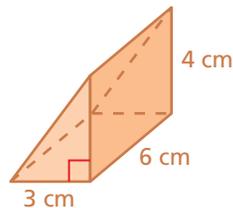
$V =$ ___36 cm^3___

8. Triangular Prism

3 mm
4 mm
4 mm
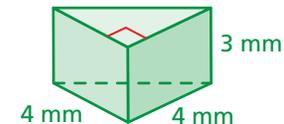
$V =$ ___24 mm^3___

9. AQUARIUM How much water is needed to fill the aquarium? ___12 ft^3___

10. AQUARIUM There are about 7.5 gallons in 1 cubic foot. How many gallons of water does the aquarium hold? ___90 gal___

2 ft
1.5 ft
4 ft