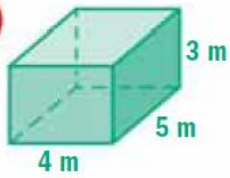


**FINDING VOLUME** Find the volume of the rectangular prism.

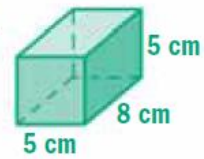
3.



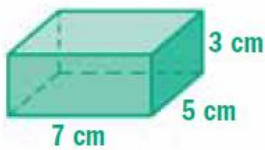
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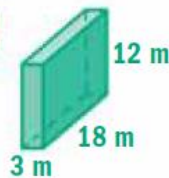
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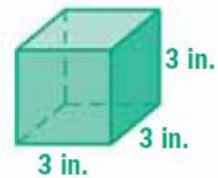
6.



7.



8.



**xy DIMENSIONS** Find the unknown dimension of the rectangular prism.

12.  $V = 400 \text{ ft}^3$ ,  $l = 10 \text{ ft}$ ,  $w = 5 \text{ ft}$ ,  $h = \underline{\quad?}$

13.  $V = 160 \text{ cm}^3$ ,  $l = 10 \text{ cm}$ ,  $w = \underline{\quad?}$ ,  $h = 8 \text{ cm}$

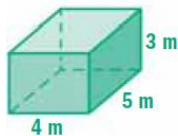
14.  $V = 1200 \text{ mm}^3$ ,  $l = \underline{\quad?}$ ,  $w = 12 \text{ mm}$ ,  $h = 4 \text{ mm}$

15. ★ **MULTIPLE CHOICE** A rectangular prism has a volume of 432 cubic feet. Its bases are squares with side lengths of 6 feet. What is its height?
- (A) 3 ft                      (B) 6 ft                      (C) 12 ft                      (D) 72 ft

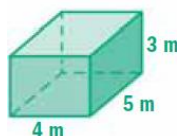
23. **WATERMELONS** In Japan, farmers have developed watermelons that are shaped like cubes and therefore fit better in refrigerators. What is the volume of a cubic watermelon whose edge length is 18 centimeters?

29. ★ **SHORT RESPONSE** What happens to the volume of a prism when its dimensions are doubled? tripled? quadrupled? *Explain* your reasoning and give examples to support your answers.

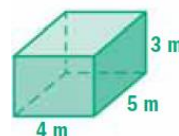
Example:



Doubled



Tripled



Quadrupled

