



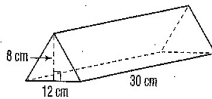
Lesson Practice

Choose the correct answer.

1. What is the volume of a cube with sides each 12 inches long? Use the formula $V = lwh$.
- A. 144 in.^3
 B. 864 in.^3
 C. $1,728 \text{ in.}^3$
 D. $20,736 \text{ in.}^3$

2. A swimming pool is shaped like a rectangular prism. The pool is 45 feet long, 25 feet wide, and 5 feet deep. What is the volume of the swimming pool? Use the formula $V = lwh$.
- A. 150 ft^3
 B. $5,625 \text{ ft}^3$
 C. $11,250 \text{ ft}^3$
 D. $28,125 \text{ ft}^3$

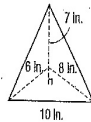
3. What is the volume of this triangular prism? Use the formula $V = Bh$.



- A. $1,440 \text{ cm}^3$
 B. $1,490 \text{ cm}^3$
 C. $2,880 \text{ cm}^3$
 D. $2,980 \text{ cm}^3$

4. A cylinder has a radius of 3 inches and a height of 9 inches. What is the approximate volume of this cylinder? Use the formula $V = \pi r^2 h$. Use 3.14 for π .
- A. 169.56 in.^3
 B. 254.34 in.^3
 C. 763.02 in.^3
 D. $1,017.35 \text{ in.}^3$

5. What is the volume of this triangular pyramid? Use the formula $V = \frac{1}{3}Bh$.



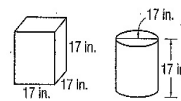
- A. 56 in.^3
 B. 168 in.^3
 C. 280 in.^3
 D. 336 in.^3

6. A cone has a radius of 8 centimeters and a height of 5 centimeters. What is the approximate volume of the cone? Use the formula $V = \frac{1}{3}\pi r^2 h$ and 3.14 for π .
- A. 41.9 cm^3
 B. 83.7 cm^3
 C. 251.2 cm^3
 D. 334.9 cm^3

7. The volume of a cylinder is 270 m^3 . What is the volume of a cone with the same radius and height?
- A. 90 m^3
 B. 135 m^3
 C. 540 m^3
 D. 810 m^3

8. The volume of a pyramid is 144 cm^3 . What is the volume of a prism with the same base size and height?
- A. 48 cm^3
 B. 72 cm^3
 C. 288 cm^3
 D. 432 cm^3

9. Denver wants to choose the ottoman with the most hidden storage room. His choices are shown below.



- A. What is the volume of the cubic ottoman? Show your work.

Answer: _____

- B. What is the volume of the cylindrical ottoman to the nearest whole number? Use the formula $V = \pi r^2 h$ and 3.14 for π . Show your work.

Answer: _____

- C. What is the difference in volume in cubic inches between the ottomans? Show your work.

Answer: _____