

Prism And Cylinder

Name: _____

Class / NO. : _____

Multiple choice : Have students choose the most correct answer.

(1)

A hollow cylinder with an inside diameter of 44 centimeters, a thickness of 2 centimeters, and a length of 25 centimeters. Find the difference between the inside and outside surfaces. (Given $\pi = 3.14$)

- A. 157.0 square centimeters
- B. 235.5 square centimeters
- C. 314.0 square centimeters
- D. 370.0 square centimeters

(2)

A prism is a right triangle with sides 5, 12, and 13 cm.

If this prism is 30 centimeters long, how many square centimeters will its total area be?

- A. 800 square centimeters
- B. 820 square centimeters
- C. 960 square centimeters
- D. 1,000 square centimeters

(3)

A rectangular prism has a cross-sectional area of 36 square centimeters and a capacity of 900 square centimeters.

What is the height of the prism?

- A. 25 centimeters
- B. 36 centimeters
- C. 40 centimeters
- D. 45 centimeters

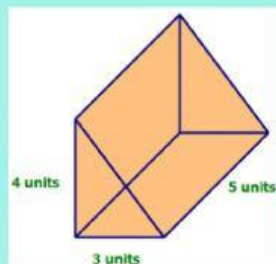
(4)

A cylindrical water tank has a radius of 7 meters and a height of 20 meters. Fill the tank with only half the water and the water in the tank will be approximately how many cubic meters is the volume? (Given $\pi \approx \frac{22}{7}$)

- A. 1,640 cubic meters
- B. 1,540 cubic meters
- C. 1,400 cubic meters
- D. 1,060 cubic meters

(5)

From the figure, what is the volume of the prism?



- A. 60 cubic units
- B. 50 cubic units
- C. 30 cubic units
- D. 10 cubic units