

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

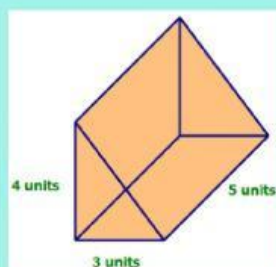
- (3) A rectangular prism has a cross-sectional area of 36 square centimeters and a capacity of 900 square centimeters. What is the height of the prism?

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