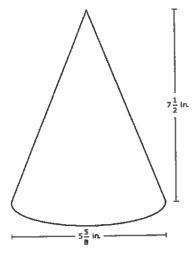
1.) A container that holds sugar is shaped like a cylinder. The radius of the container is 3 inches, and the height of the container is 10.5 inches.

Which measurement is closest to the volume of the container in cubic inches?

- A 254.47 in.3
- B 296.88 In.3
- C 395.84 In.3
- D 197.92 in.3

2 A cone and its dimensions are shown in the diagram.



Which measurement is closest to the volume of the cone in cubic inches?

- F 186.38 in.3
- H 745.51 In.3
- G 248.50 in.3
- J 62.13 In.3

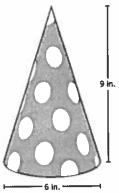
3.)

A ball shaped like a sphere has a radius of 2.7 centimeters. Which measurement is closest to the volume of the ball in cubic centimeters?

- **A** 46.38 cm³
- **B** 33.93 cm³
- C 122.15 cm³
- **D** 82.45 cm³

A party hat is shaped like a cone. The dimensions of the party hat are shown in the diagram





Which measurement is closest to the volume of the party hat in cubic inches?

A 84.82 in.³

C 254.47 in.3

B 339.29 in.³

D 1,017.88 in.³

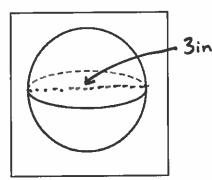
Find the volume of the sphere that is shown

A. $3\pi in^3$

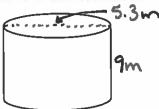
B. 13.5 in³

C. $4.5 \pi in^3$

D. 4.5 in²

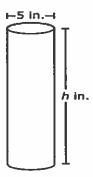


tank has a diameter of 5.3 meters and a height of 9 meters. What is the maximum volume that the water tank can hold?



- A. $47.7\pi \text{ m}^3$
- C. 198.6π m³
- B. $23.9 \, \pi \, m^3$
- D. $63.2 \, \pi \, m^3$

A cylinder and its dimensions are shown in the diagram.



Which equation can be used to find V, the volume of the cylinder in cubic inches?

A
$$V = \pi (2.5h)^2$$

B
$$V = \pi (5h)^2$$

$$V = \pi(2.5)^2 h$$

D
$$V = \pi(5)^2 h$$

A.) A cone and its dimensions are shown in the diagram.



Which equation can be used to find V, the volume of the cone in cubic inches?

A.
$$V = \pi(5^3)$$
 (7)

B.
$$V = (\frac{1}{3}) (5^2) (7)$$

C.
$$V = \frac{\pi(5)(7)}{3}$$

D.
$$V = (\frac{1}{3}) \pi (5^2) (7)$$

A sphere has a radius of 6 inches.

Which equation can be used to find V, the volume of the sphere in cubic inches?

A.
$$V = (\frac{1}{3}) \pi (6^2)$$

B.
$$V = (\frac{4}{3}) \pi (6^3)$$

C.
$$V = \frac{4 \pi (6^3)}{3}$$

D.
$$V = \frac{3\pi (6^2)}{4}$$

10.) Who solved it correctly?

$$V = \pi (5^2)(11)$$



11.) Who solved it correctly?

$$V = \frac{\pi(36)(9)}{3} = \frac{\pi(324)}{3}$$

$$V = \frac{\pi r^2 h}{3} = \frac{\pi (9^2)(6)}{3}$$

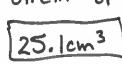
$$V = \frac{\pi(81)(6)}{3} = \frac{\pi(486)}{3}$$

12.) Who solved it correctly?

a.) Johnny

$$V = \frac{4\pi(2)^3}{3} = \frac{4\pi(6)}{3}$$

$$V = \frac{24\pi}{3} = 8\pi \text{ cm}^3 \text{ or}$$



$$V = \frac{4\pi r^3}{3}$$

$$V = \frac{4\pi(2^3)}{3} = \frac{4\pi(8)}{3}$$

$$V = \frac{32\pi}{3} = 10.7\pi \text{ cm}^3 \text{ or}$$

$$33.5 \text{ cm}^3$$