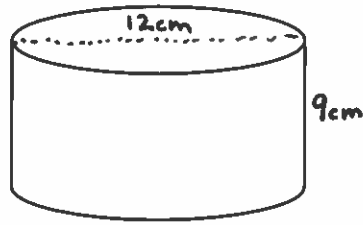


1.) Bill used a container shaped like a cylinder to catch rainwater. The dimensions of the container are shown below.



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

- a.) 1,527 cm³
- b.) 4,072 cm³
- c.) 1, 018 cm³
- d.) 3,054 cm³

Which equation can be used to determine the amount of rainwater that will fill the container?

- a.) $V = (12\pi) (9)$
- b.) $V = (6\pi) (9)$
- c.) $V = (12\pi) (81)$
- d.) $V = (36\pi) (9)$

2.)

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

3.) Mr. Ritz’s World Geography class is celebrating cultures around the world by bringing in foods from different cultures. One student made a serving dish by cutting a globe with a radius of 21cm in half as shown below.

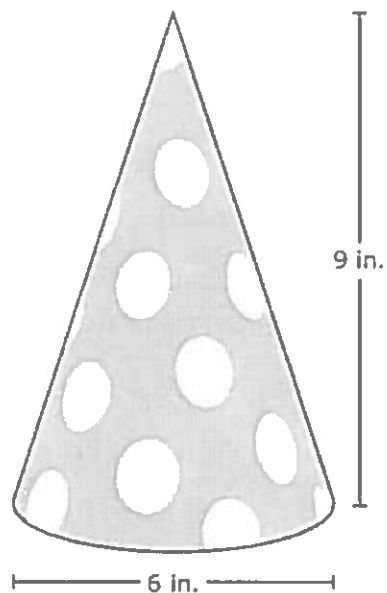


What is the approximate volume of the serving dish? Use 3.14 for π

- a.) 923.16 cm³
- b.) 19,386.36 cm³
- c.) 38, 772.72 cm³

4.)

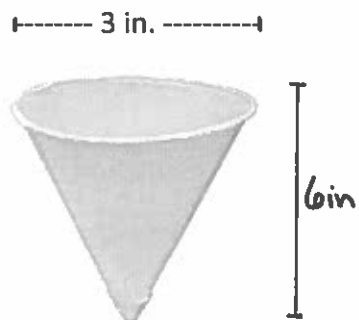
A party hat is shaped like a cone. The dimensions of the party hat are shown in the diagram.



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

- A 84.82 in.³
- B 339.29 in.³
- C 254.47 in.³
- D 1,017.88 in.³

5.) A paper cup is shaped like a cone. The dimensions of the paper cup are shown in the diagram below.



Which measurement is the closest to the amount of water the paper cup can hold in cubic inches?

- a.) 14.13 in.³
- b.) 18.85 in.³
- c.) 42.39 in.³
- d.) 56.55 in.³