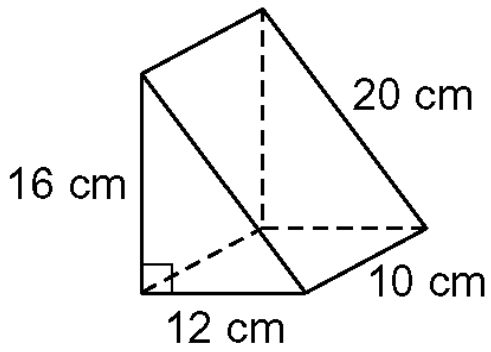


Name _____

Math 8 - Unit 8: Volume Review - Find the volume of each figure. Round all answers to the nearest hundredth. Remember your units. Use pi button.

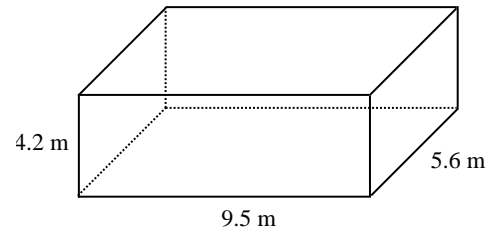
1)



Work: Volume = _____

Answer:

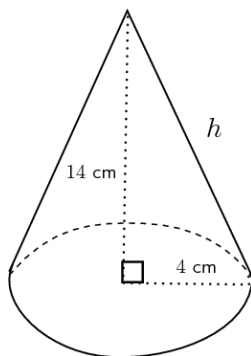
2)



Work: Volume = _____

Answer:

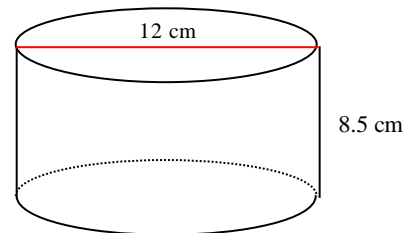
3)



Work: Volume = _____

Answer:

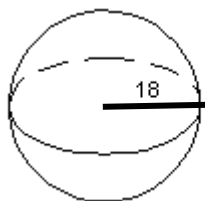
4)



Work: Volume = _____

Answer:

5)



Work:

Volume = _____

Answer:

6) A cylindrical container of corn has a diameter of 11 cm and a height of 8 cm. Find the volume of the container of corn.

Work:

Volume = _____

Answer:

7) Pita Mellark has a survival kit in the shape of a cylinder with a height of 10 inches and a diameter of 4 inches. He calculated the volume of the kit to be approximately 502 in^3 . Katis said his answer was wrong. Explain Pita's error and find the correct volume.

Pita's Error

Correct Answer

8) Orange traffic cones, or pylons, come in a variety of sizes. What is the volume in cubic inches of a pylon with height 36 inches and diameter 9 inches?

Answer:

9) Fossilized embryos of dinosaurs called Titanosaurid Sauropods have recently been found in spherical eggs in Patagonia. The eggs were 15 cm in diameter. Find the volume of an egg.

Answer:

10)

A cylinder has the dimensions shown in the diagram.



What happens to the volume of the cylinder when its height is increased by 2?

- A. The volume increases by approximately 25.
- B. The volume increases by approximately 120.
- C. The volume increases by exactly 8.
- D. The volume increases by exactly 40.

11)

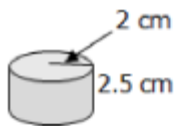
Jim fills his gas container whenever it gets down to $\frac{1}{4}$ full in order to have enough gas for his next mowing job. If the gas container is in the shape of a cylinder, approximately how much gas is left in the gas container when it is time to refill it?



- A. 1413 in.^3
- B. 353 in.^3
- C. 283 in.^3
- D. 71 in.^3

12)

A cylinder has the dimensions marked in the diagram.

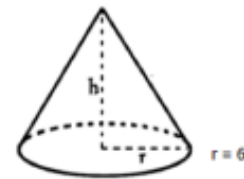


Which statement about the volume of the cylinder is *most* accurate?

- A. The volume is approximately 40 cubic centimeters.
- B. The volume is exactly 40 cubic centimeters.
- C. The volume is approximately 30 cubic centimeters.
- D. The volume is exactly 30 cubic centimeters.

13)

If the volume of the cone is 108π cubic units, what is the height of the cone?



- A. 6 units
- B. 7 units
- C. 8 units
- D. 9 units