

HOMEWORK

1. Which is the correct description of how to find the volume of a cylinder?

- A. Find the circumference of the base and multiply it by the height of the cylinder.
- B. Find the area of the base and multiply it by height of the cylinder.
- C. Square the area of the base and multiply it by the height of the cylinder.
- D. Find the area of the base and add it to the height of the cylinder.

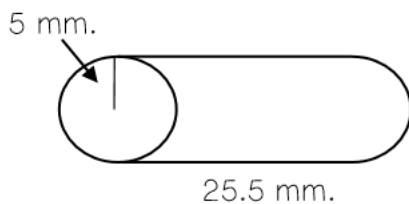
2. Eric needs to find the area of the base of a cylinder. Which formula will help him?

- A. $2\pi r$
- B. $2\pi rh$
- C. πr^2
- D. $\frac{1}{2}bh$

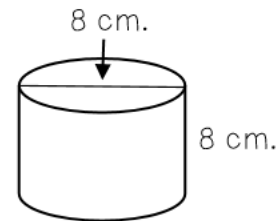
3. Mrs. Pitts wrote the volume formula as " $V=Bh$ ". What does "B" represent?

- A. The radius of the base.
- B. The diameter of the base.
- C. The circumference of the base.
- D. The area of the base.

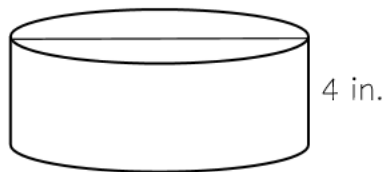
4. Find the volume of the cylinder. Leave your answer in terms of π .



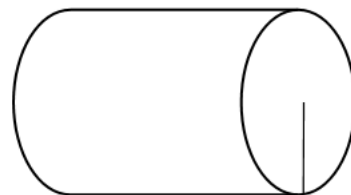
5. Find the volume of the cylinder. Leave your answer in terms of π .



6. The cylinder shown has a diameter of 11 inches. Find the volume of the cylinder. Round your solution to the nearest tenth.



7. The cylinder shown has a radius of 3 inches. The height is three times the radius. Find the volume of the cylinder. Round your solution to the nearest tenth.



8. A cylindrical basket has a volume of 15 cubic feet. If the height of the basket is 1.5 feet, what is the area of the base of the basket?

9. A container of candy is shaped like a cylinder and has a volume of 125.6 cubic centimeters. If the height of the container is 10 centimeters, what is the radius of the container?

10. Jacob needs to know the volume of the cylinder shown. Which expression will give him the correct volume?

- A. $3.14(48^2)(2.5)$
- B. $3.14(24^2)(2.5)$
- C. $3.14(2^2)(2.5)$
- D. $3.14(1^2)(2.5)$

