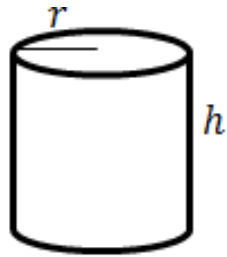


Possible Solutions

A cylinder is labeled with the radius and height.



Which of the following represents the volume of the cylinder?

- a) $V = Bh$ or $V = \pi r^2 h$, which means the area of the base (πr^2) times the height (h).
 - b) $V = Bh$ or $V = 2\pi r h$, which means the area of the base ($2r\pi$) times the height (h).
 - c) $V = Bh$ or $V = \pi d h$, which means the area of the base (πd) times the height (h).
 - d) $V = Bh$ or $V = \pi r h^2$, which means the area of the base (πr) times the height (h^2).
-
- The correct solution is a) $V = Bh$ or $V = \pi r^2 h$, which means the area of the base (πr^2) times the height (h) because the base of the cylinder is a circle, so the area of the base is $B = \pi r^2$.