

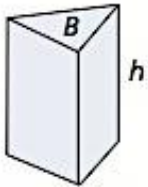
Volume is the number of cubic units contained in a three-dimensional figure.

Volume of a Prism or Cylinder

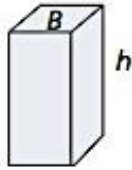
$$V = B \cdot h$$

where B is the area of the base and h is the height.

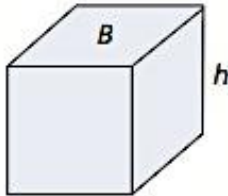
You can use this formula to find the volume of any prism or cylinder.



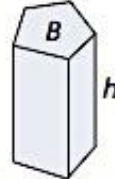
Triangular prism



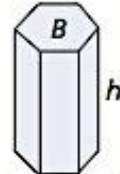
Rectangular prism



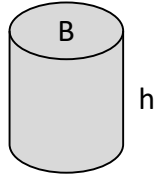
Cube



Pentagonal prism



Hexagonal prism

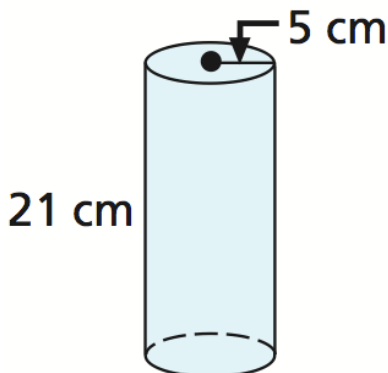


Cylinder

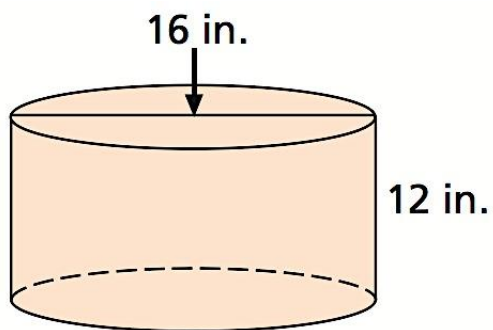
Remember your area formulas for different shapes:

Formulas: Triangle Area = $\frac{1}{2}bh$ Parallelogram Area = bh Trapezoid area = $\frac{1}{2}(b_1+b_2)h$
 Circumference = πd Circle Area = πr^2 $\pi \approx 3.14$ for rough estimates: $\pi \approx 3$

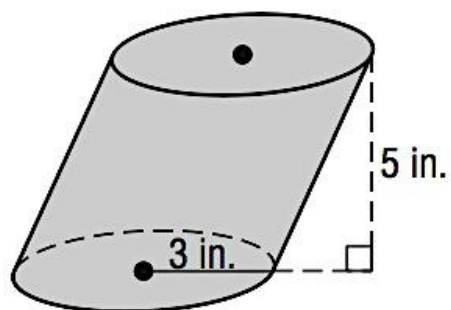
What is the volume of this cylinder?



What is the volume of this cylinder?



What is the volume of this cylinder?



Each one of the concrete drainage pipes shown has a length of 12 feet. The outer diameter of the pipe is 5.2 feet, and the inner diameter is 4.8 feet. What is the volume of one of these pipes?

