

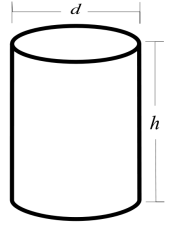
VIDEO: <https://www.youtube.com/watch?v=Fi8ZBuGsOhc>

Unit 7 → Volume
7.3 Volume of a Cylinder

The base of a cylinder is a circle

The formula for the area of the base of a cylinder must then be:

The volume of a cylinder can be found using the formula:



Examples:

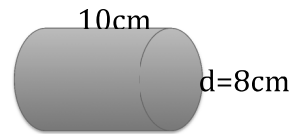
1. Find the volume of this dime. What information would you need to calculate the volume of a roll of dimes?

$d = 18.03\text{mm}$
 $h = 1.22\text{mm}$



2. Hanna want to calculate the volume of the cylinder shown but does not know which measurement is the height.

- a) What is the height?
- b) What is the volume?



3. What is the volume of the following cylinder?

diameter 3.5cm, height = 17cm

4. Determine the volume of the shape below:



5. Kyle uses a cylinder to store jelly beans. He wonders if he could store more jelly beans if he used a triangular prism of the same height. Which container is larger?

