

Agenda

Homework:

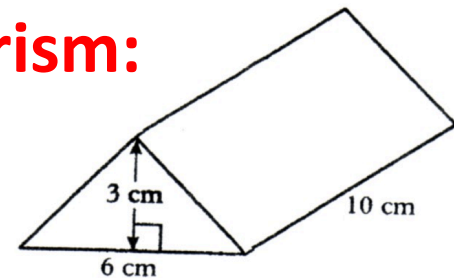
- GM IP pg. 403 #6-13
- AM

Materials:

- Go Math book
- Calculator (if needed)

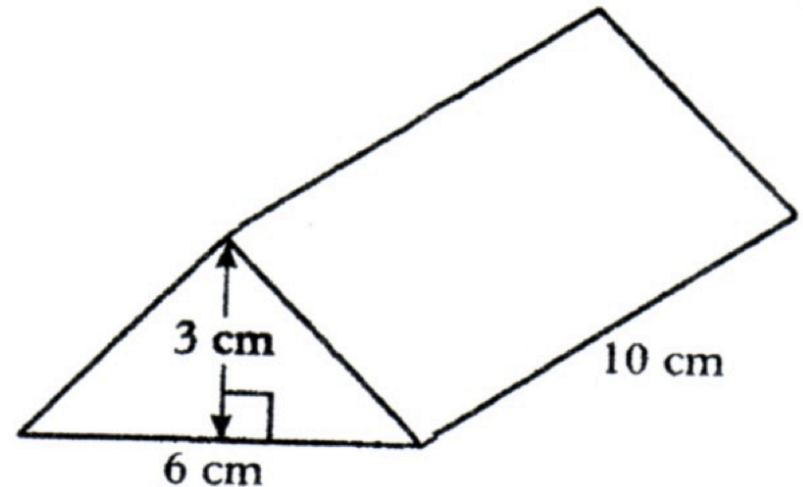
Do Now:

- Tear out Go Math pg. 403
1. Find the area of a circle with a diameter of 10
 2. Find the volume of this prism:



Do Now

- Find the area of a circle with a diameter of 10
- Find the volume of this prism:



Homework Review



What is a cylinder?

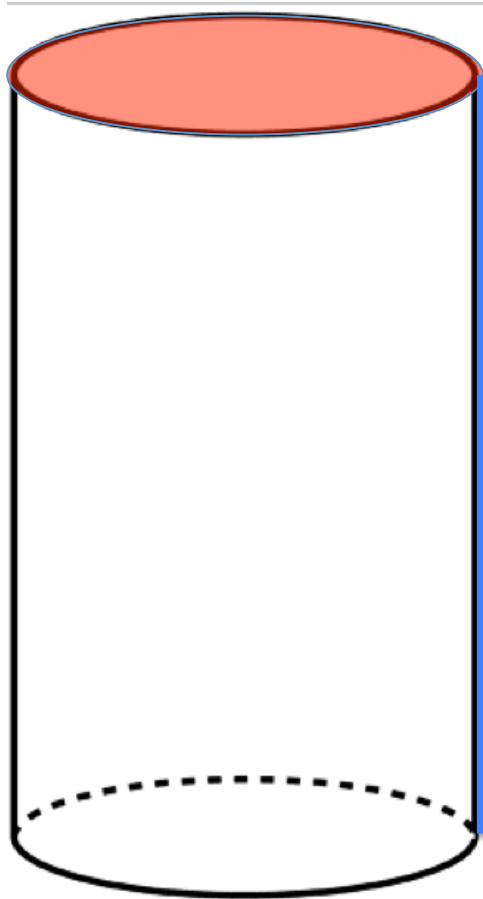
- A **polyhedron** (3D shape) that has **two congruent** (same) circular faces that are parallel (opposite) each other.



How do you find the volume of a cylinder?

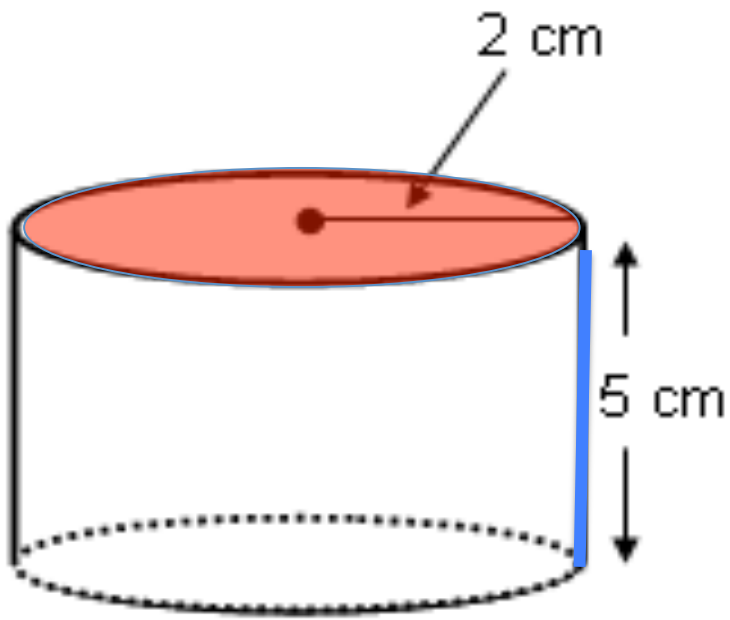


- Volume = πr^2 * height units³





Find the volume of the following cylinder



Volume: πr^2 * height

$$3.14(2^2) = 12.56 * 5 =$$

$$62.8 \text{ cm}^3$$

How does the formula for the volume of a cylinder compare to the formula for the volume of prisms?

In your table groups...

- You will determine which container you would rather use for the given scenario...
- Solve for the volume on your desk (all team members must solve)
- Support your answer with mathematical reasoning
- Each question, a different person will share their groups answer

Which container would you use for ice cream?



$W = 3 \text{ in}$

$h = 5$



Which would you use for a pool?



Which would you rather use for a water bottle?



$d = 3.5 \text{ in}$

$h = 9 \text{ in}$



$d = 5 \text{ in}$

$h = 6 \text{ in}$