Warm-Up

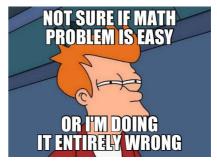


- 1. Take out your HW to be checked and go over it.
- 2. ***REMEMBER, I am checking your construction videos HW on FRIDAY!!***

Unit 4B Quiz 1



1. There is **NO**communication/eye contact
during a quiz to anyone!



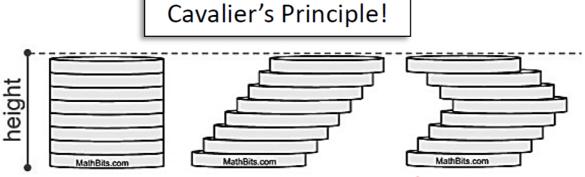
2. When you are DONE, put it in the bin.

What am I learning today?

Learning Objective 4C.1

How to calculate the volume of a figure.

Volume – Calculates the <u>Capacity</u> of an object (how much stuff can it hold)



same height, same amount of pieces, pieces are the same size, cross sections are parallel = same volume!

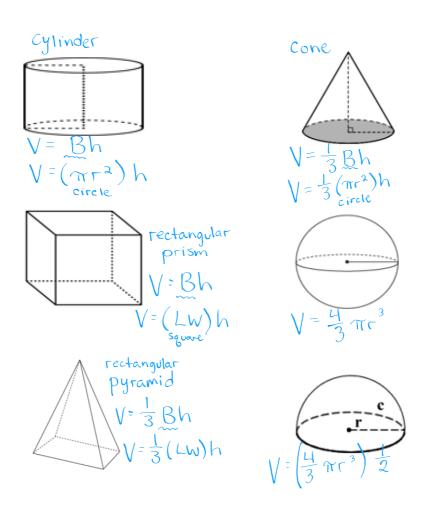
4 - zVolume.notebook

- Prism A solid object with two identical ends and flat sides
- <u>Pyramid</u> Has 1/3 of the volume a solid object with two identical ends and flat sides itself

$$V = \frac{1}{3}Bh$$

• <u>Sphere</u> – Calculates the volume of a 3D circle

$$\frac{4}{3}\pi\Gamma^3$$



4 - zVolume.notebook

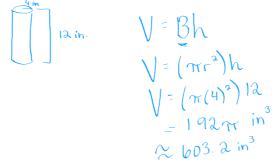
1. What is the volume of a square based pyramid with a base side length of 16 meters and a height of 15 meters?



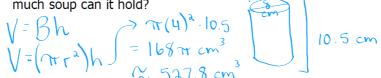
2. Thelma and David built a recycling bin that is 6 feet wide, 12 feet long, and 14 feet high. How much trash can fit inside of the bin?



3. A fire extinguisher has a radius of 4 inches and is 12 inches high. How much cubic inches of fluid can it hold?



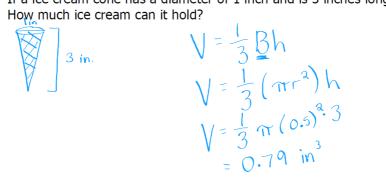
4. A soup can has a diameter of 8 cm and height of 10.5 cm. How much soup can it hold?



5. If a sphere has a radius of 3 cm and a new sphere's radius is tripled. What would the new volume be of the new sphere?



6. If a ice cream cone has a diameter of 1 inch and is 3 inches long. How much ice cream can it hold?



Classwork:



Complete the classwork about volume. SHOW ALL WORK!

HW: EOC Review #3

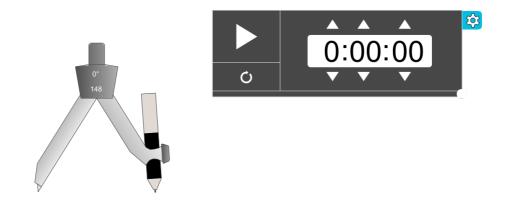
What am I going to do today?

- Grade and discuss Warm-Up
- Take notes on bisecting angles and line segments using constructions
- Practice bisecting angles and line segments using constructions

4 - zVolume.notebook

What will I do to show that I have learned it?

I can use a compass and steps to create accurate geometric constructions.



http://www.mathopenref.com/tocs/constructionstoc.html

Classwork:



Complete the classwork about copying an angle and copying a line segment.

HW: Watch the construction videos to learn the steps.