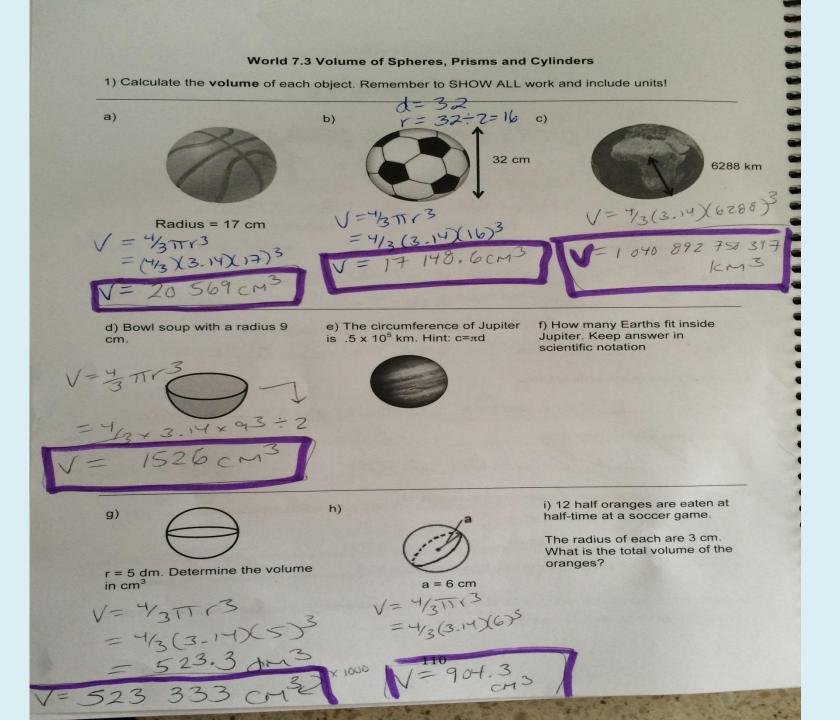
# Warm Up

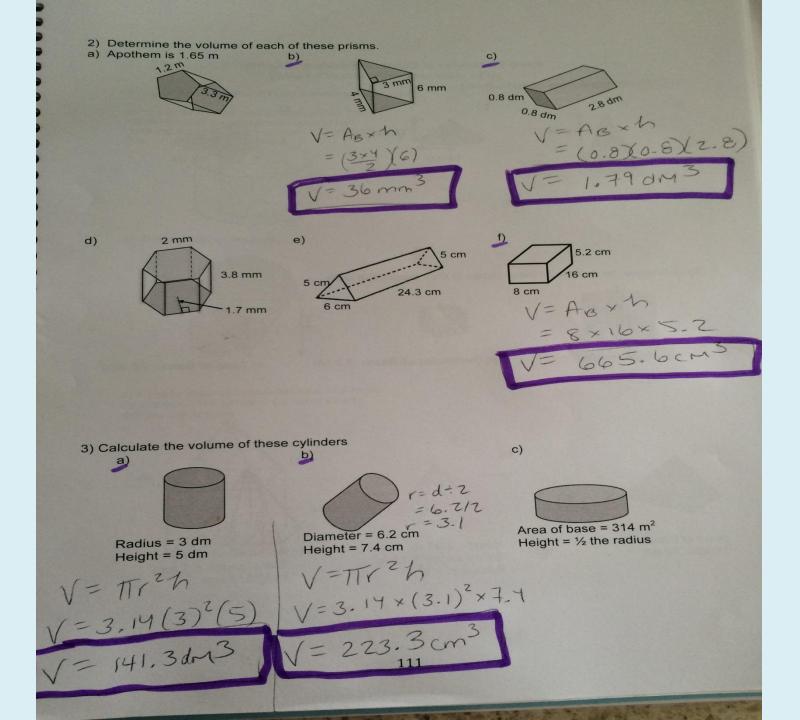
What were the success criteria from last class?

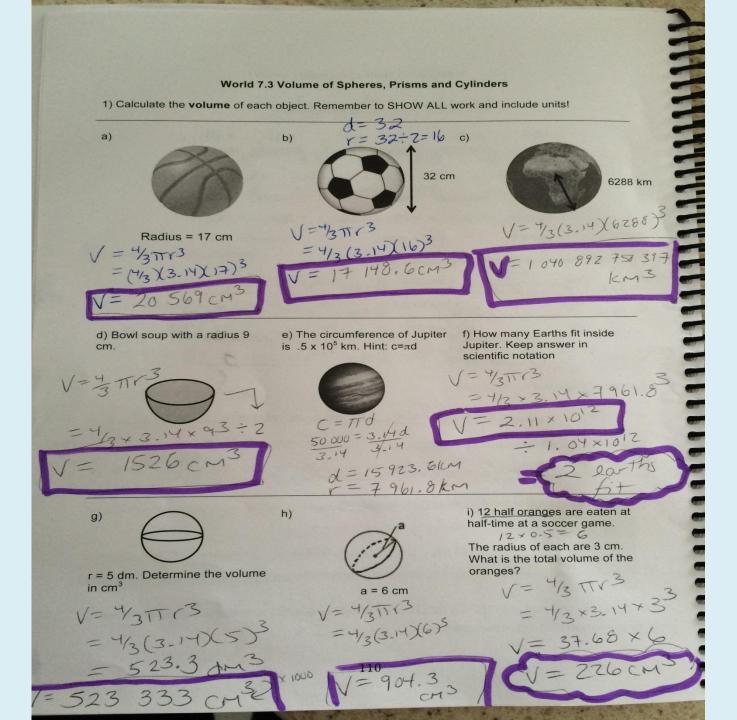
### Agenda:

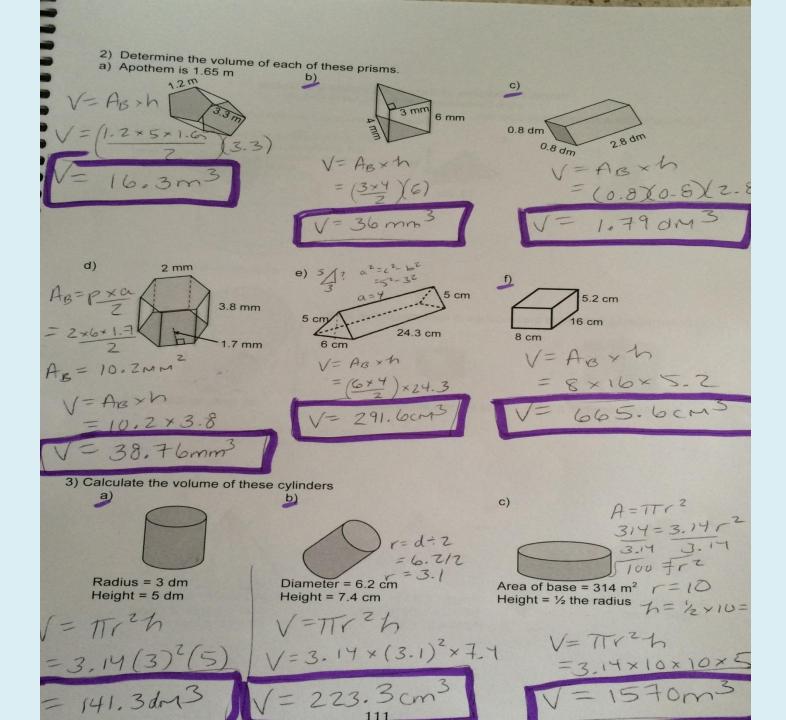
- 1. Homework corrections (page 110 and 111)
- 2. Team questions
- 3. Volume of Cones and Pyramids
- 4. Practice

MATH HELP THURSDAY TEST – TUES. FEB 23<sup>rd</sup>











# **Today we will** calculate the volume of cones, pyramids

So that we can determine space and capacity

#### **Keys to Success:**

- $\checkmark$  Identify the correct formula
- ✓ Substitute the values given
- $\checkmark$  Solve for the solution using correct units

### Volume of a Cone

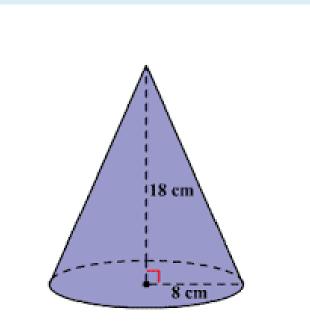
$$V = \frac{\pi r^2 h}{3}$$

#### **Example:**

$$\mathsf{V} = \frac{\pi r^2 h}{3}$$

V = 3.14 x 8x 8 x 18/3

V = 1 205.76 cm<sup>3</sup>



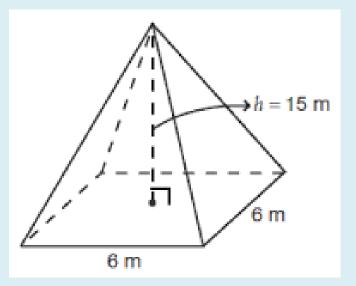
### Volume of a Pyramid

$$V = \frac{A_B x h}{3}$$

#### **Example:**

$$V = \frac{A_B x h}{3}$$
  
V = 6 x 6 x 15/3

V = 180 m<sup>3</sup>



### Practice

1. Workbook page 112

### Test: Tuesday, February 23<sup>rd</sup> Surface Area and Volume

**Today we will** determine the volume of decomposable solids, while exploring the similarities and differences between surface area and volume.

**So that** we can determine the space an object takes up.

### **Keys to Success:**

- 1. Formula
- 2. Substitute
- 3. Solution with correct units

### Warm up

Calculate the capacity in <u>litres</u> of a cone with a slant height of 5cm, and a radius of 3 cm.

Use pythag to find the **height** 

$V = \frac{\pi r^2 h}{3}$	$a^2 = c^2 - b^2$
5	$a^2 = 5^2 - 3^2$
V = 3.14 x 3 x 3 x 4/3	a² = 16
V = 37.68 cm <sup>3</sup>	a = 4 = height

37.68 cm3 ÷ 1000 = 0.0377 dm3 = 0.0377L

## Practice Test – Workbook, pages 103-107

Changes to make:

Page 104 Short Answer

#1, 2, 3 – Find surface area AND volume of each

Page 106 Long Answer

#2. The value of the amber gem is \$100/mm<sup>3</sup>

Finished?

Start making your memory aid...double check all formulas and include examples! ③