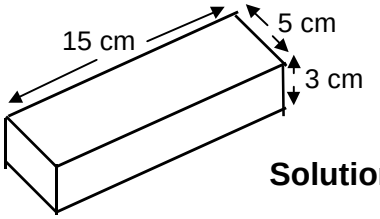
Volume Calculations

Date _____ **Class Period** _____ **Name** _____

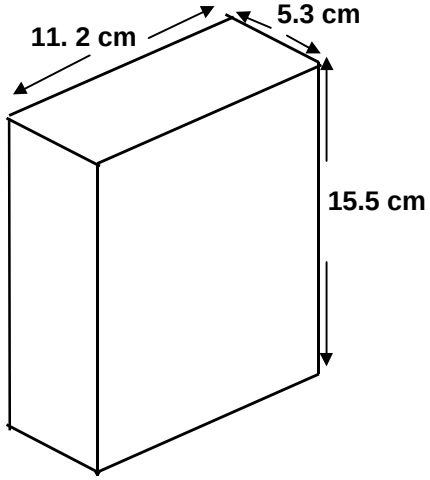
Problem: Determine the volume of this object.



Length = 15cm
Width = 5 cm
Height = 3 cm

Solution: Length x Width x Height = Volume
15 cm x 5 cm = 75 cm^2
75 cm^2 x 3cm = **225 cm^3**

1. **Determine the volume of the object shown below.**



Show your calculations here. ***Don't forget the units!***

2. **Calculate the volume of an aquarium with the following dimensions:**
Height 35 cm, width 22 cm, length 60 cm

Show your calculations here. ***Don't forget the units!***

3. How many liters will the aquarium in problem #2 hold ?

Show your calculations here. ***Don't forget the units!***

(Over Please)

Volume Calculations

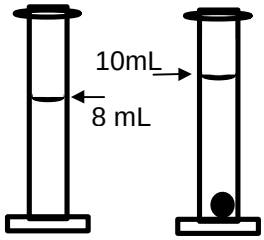
4. A sidewalk is 20 m long, 1.2 m wide, and 15 cm thick. How many cubic centimeters of concrete make up the sidewalk?

Show your calculations here. ***Don't forget the units!***

5. A fuel tank is 150 cm long, 40 cm high and 40 cm deep. How many mL of fuel will it hold? How many liters ?

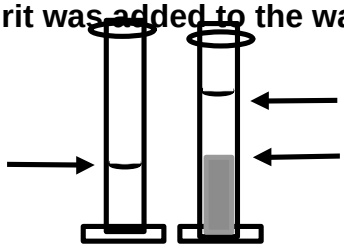
Show your calculations here. ***Don't forget the units!***

6. Look at the figures below and determine the volume of the marble in the graduated cylinder on the right. The two pictures show the same cylinder. The one on the left shows the cylinder before the marble was added to the water.



Show your calculations here. ***Don't forget the units!***

7. Look at the figures below and determine the volume of the grit in the graduated cylinder on the right. The two pictures show the same cylinder. The one on the left shows the cylinder before the grit was added to the water.



ORIGINAL WATER LEVEL - 20 mL

NEW WATER LEVEL 33 mL

GRIT LEVEL 24 mL

Calculate the <u>actual volume of the grit</u> and the <u>total</u> <u>volume of space</u> between the pieces of grit.

Show your calculations here. ***Don't forget the units!***