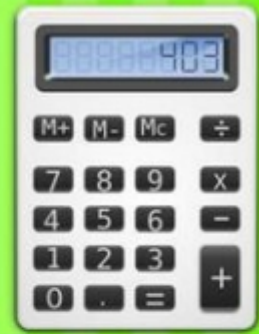




# Calculating Density



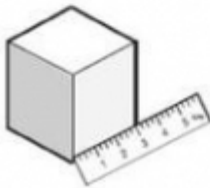
Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Calculating Density

Work the problems in the space below. You may use a calculator.

$m$  ← Put # in calculator FIRST  
 $d = \frac{m}{V}$  ← Push the ÷ button SECOND  
 $V$  ← Put # in calculator THIRD

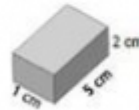
1. Ernie wants to find the density of his unknown cube. The mass of his cube is 108 g. Calculate the density of Ernie's cube.



Step 1:  
 Length of the cube: \_\_\_\_\_ cm  
 width of the cube: \_\_\_\_\_ cm  
 Height of the cube: \_\_\_\_\_ cm  
 volume of the cube = length x width x height  
 Volume = \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Step 2:  
 Volume of the cube from step 1: \_\_\_\_\_ cm<sup>3</sup>  
 Mass of the cube from the question: \_\_\_\_\_ g  
 $d = \frac{m}{V}$   
 $d = \frac{\quad}{\quad}$

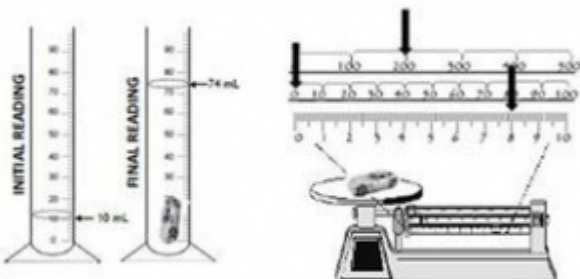
2. Calculate the density if the mass is 150 g.



Step 1:  
 Length of the cube: \_\_\_\_\_ cm  
 width of the cube: \_\_\_\_\_ cm  
 Height of the cube: \_\_\_\_\_ cm  
 volume of the cube = length x width x height  
 Volume = \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Step 2:  
 Volume of the cube from step 1: \_\_\_\_\_ cm<sup>3</sup>  
 Mass of the cube from the question: \_\_\_\_\_ g  
 $d = \frac{m}{V}$   
 $d = \frac{\quad}{\quad}$

3. Calculate the density.



Step 1 - Find the volume of the irregular solid.

Initial reading: \_\_\_\_\_ mL  
 Final reading: \_\_\_\_\_ mL  
 Volume = Final reading - Initial reading  
 = \_\_\_\_\_ mL

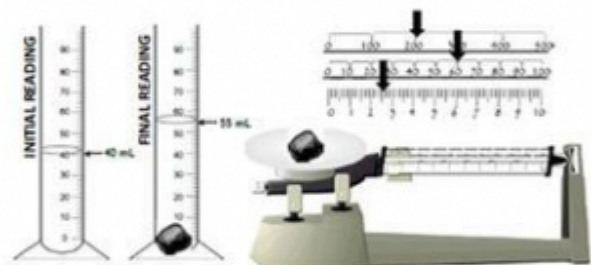
Step 2 - Find the mass of the irregular solid.

Read the TBB. What is the mass of the car?  
 \_\_\_\_\_ g

Step 3 - Calculate the density

$d = \frac{m}{V}$        $d = \frac{\quad}{\quad}$

4. Calculate the density.



Step 1 - Find the volume of the irregular solid.

Initial reading: \_\_\_\_\_ mL  
 Final reading: \_\_\_\_\_ mL  
 Volume = Final reading - Initial reading  
 = \_\_\_\_\_ mL

Step 2 - Find the mass of the irregular solid.

Read the TBB. What is the mass of the car?  
 \_\_\_\_\_ g

Step 3 - Calculate the density

$d = \frac{m}{V}$        $d = \frac{\quad}{\quad}$