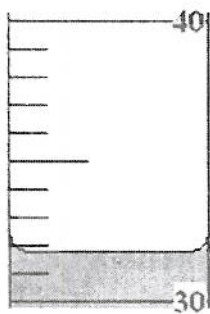


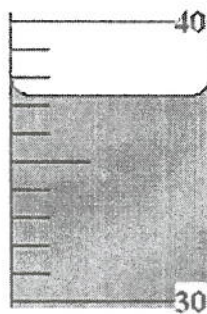
Name _____

1. A student finds the mass of a solid object to be **45.026** grams. The student places some water in a graduated cylinder as shown in figure one. After adding the solid object the water level rises as shown in figure two. What is the density of the object?



V = _____

before adding object



V = _____

after adding object

Show all work!

Density of object = _____

(Watch sig. fig.'s and don't forget units on answer!)

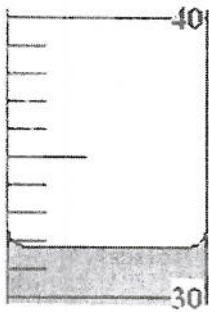
2. A graduated cylinder is placed on an electronic balance, and the balance reads 78.32 g. 10.0 mL of liquid are poured into the cylinder and the balance now reads 91.78 g. What is the density of the liquid? (Show all work!) (Watch sig. fig.'s!)

Density of liquid = _____

(Watch sig. fig.'s and don't forget units on answer!)

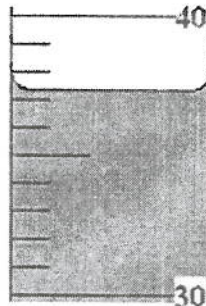
Name _____

1. A student finds the mass of a solid object to be 45.026 grams. The student places some water in a graduated cylinder as shown in figure one. After adding the solid object the water level rises as shown in figure two. What is the density of the object?



$V = 31.8$

before adding object



$V = 37.3$

after adding object

Show all work!

$$\begin{array}{r} 37.3 \\ - 31.8 \\ \hline 5.5 \text{ ml} \end{array}$$

$$d = \frac{45.026}{5.5 \text{ ml}} = 8.1865 \frac{\text{g}}{\text{ml}}$$

- 7.9
- 8.0
- 8.2
- 8.3
- 8.5

Density of object = $8.2 \frac{\text{g}}{\text{ml}}$
 (Watch sig. fig.'s and don't forget units on answer!)

$\div 5.6 = 8.04 = 8.0 \frac{\text{g}}{\text{ml}}$

$\div 5.7 = 7.9 \frac{\text{g}}{\text{ml}}$

$\div 5.4 = 8.3 \frac{\text{g}}{\text{ml}}$ $\div 5.3 = 8.5 \frac{\text{g}}{\text{ml}}$

2. A graduated cylinder is placed on an electronic balance, and the balance reads 78.32 g. 10.0 mL of liquid are poured into the cylinder and the balance now reads 91.78 g. What is the density of the liquid? (Show all work!) (Watch sig. fig.'s!)

$$\begin{array}{r} 91.78 \\ - 78.32 \\ \hline 13.46 \text{ g} \end{array}$$

$$d = \frac{13.46 \text{ g}}{10.0 \text{ ml}}$$

Density of liquid = $1.3 \frac{\text{g}}{\text{ml}}$ or $1.3 \frac{\text{g}}{\text{ml}}$
 (Watch sig. fig.'s and don't forget units on answer!)