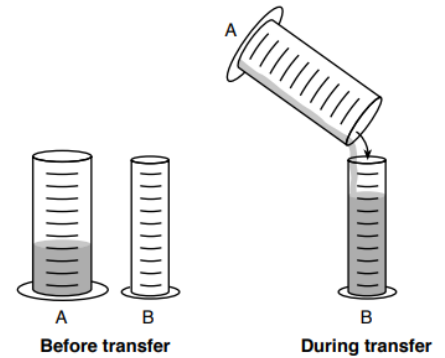


- 1.) The diagrams below represent two cylinders. One hundred milliliters of a liquid was completely transferred from cylinder A to cylinder B.

Compared to the liquid that was cylinder A, the liquid in cylinder B will have

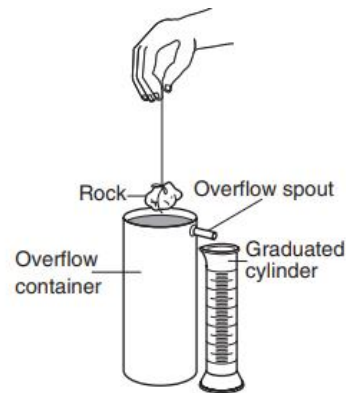
- a. Less mass and more volume
- b. Less mass and the same volume
- c. The same mass and more volume
- d. The same mass and the same volume



- 2.) The diagram below shows a rock suspended above an overflow container filled with water up to the overflow spout. A graduated cylinder is positioned next to the container to collect water that comes out.

Which property of the rock can be directly determined when the rock is placed in the overflow container?

- a. Mass
- b. Density
- c. Volume
- d. Hardness



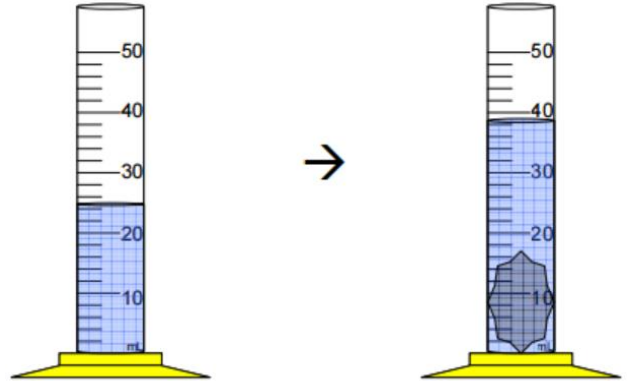
- 3.) You are given an object with mass = 53.82g and volume = 29.40 mL. What is the density?
- 4.) You are given an object with a volume = 10.36 cm^3 and a density = 2.33 g/cm^3 . What is the mass?
- 5.) You are given an object with a mass = 31.92g and a density = 1.72 g/cm^3 . What is the volume?
- 6.) You are given a metal cube sample. The length of one side is 4.07 cm. The mass is 386 g. What is the density?
- 7.) 9,762 g = _____ kg
- 8.) 276 mL = _____ L
- 9.) 37 mm = _____ cm
- 10.) 1,529 m = _____ km
- 11.) 107 cm = _____ m
- 12.) A. What do you call the procedure that helps you determine the volume of an irregularly shaped object, while using a graduated cylinder?
- B. How do you perform the procedure?

13.) Refer to the diagrams to the right and determine the volume of the rock.

Initial Volume _____

Final volume _____

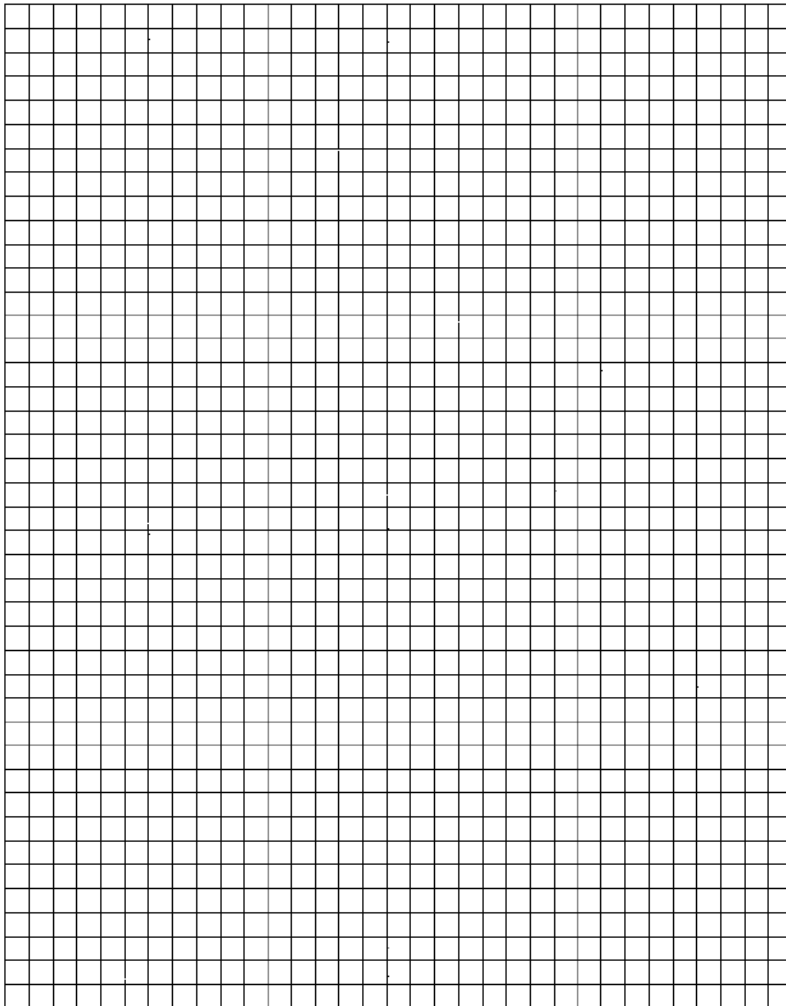
Volume of rock _____



14.) A student goes skateboarding a few times a week. The student notices that she can go faster while skateboarding on some level surfaces than on others. She hypothesizes that speed has something to do with the surface she is skating on. The student wants to design an experiment to test his hypothesis.

- Identify the independent variable _____
- Identify the dependent variable _____
- Name two constant variables
 - _____
 - _____
- What is the experimental group? _____
- What is the control group? _____

15.) A scientist conducted an experiment to determine if depth below water affected the amount of oxygen produced by different types of plants. Use the data in the table below to complete the graph provided. Remember SULTAN.



Depth in meters	Number of bubbles/min Plant A	Number of Bubbles/min Plant B
2	29	21
5	36	27
10	45	40
16	32	50
25	20	34
30	10	20

