

NAME:

PERIOD:

DATE:

Volume Classwork #2

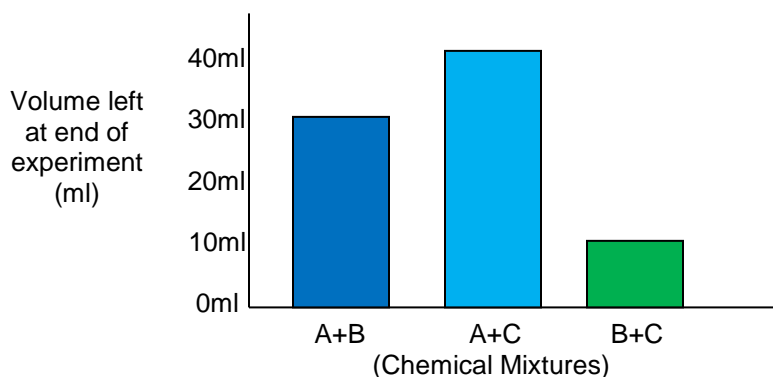
Answer all questions as best you can. Use your notes to help you. Be specific. Be scientific.

1. What is volume? (Pick one.)

- a. a measurement of how much something weighs
- b. a measurement of how much space something takes up
- c. a measurement of the amount of atoms or parts of atoms in an object
- d. all of these

Read the description below, and be sure you understand the graph below before answering questions 2 and 3.

Elwood mixed chemicals together in different ways for an experiment. First, he mixed chemical A with chemical B, then A with C, and finally B with C. He wanted to see what volumes there would be after the experiment was over. Look at his graph:



2. After Elwood mixed chemicals B and C what was the volume of what was left?

3. Which combination of chemicals had the most volume left over at the end of the experiment?

How much did they have left?

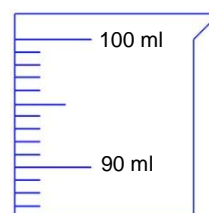
4. Give two examples of **units** that are used to measure volume in the **Metric** system.

5. Give two examples of **units** that are used to measure volume in the **English** system.

6. What does **displacement** mean?

7. What is the **scale** of the graduated cylinder to the right? (Fill in the blank below)

Each mark is _____ ml



8. Find the **volume** of a block of wood that has a length of 22cm, a width of 6cm, and a height of 14cm.

9. In the picture to the right, if the flask was a graduated cylinder, would the person be reading it right?

Why or why not?

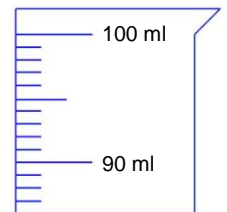


10. Read the statement below, and then **Circle** ALL the **TRUE** statements that follow.

I have a block of Styrofoam that has a volume of 100cm^3 and a brick that is the same volume.

- A. Both blocks weigh the same because they are the same size.
- B. The Styrofoam block and the brick cannot be the same volume.
- C. Both blocks have the same volume.
- D. 100cm^3 is not a measurement of volume, the units are wrong.
- E. Both blocks take up the same amount of space.
- F. The volume of the brick is greater, because it is heavier.

11. On the cylinder to the right, draw a meniscus to show that there is 92ml in the cylinder.



12. List the four rules for using a graduated cylinder in the space below:

- a.
- b.
- c.
- d.