

Name: \_\_\_\_\_ Grade/Group: \_\_\_\_\_

Subject: Chemistry – Teacher: Mrs. McNeal

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

## **Chem-7 Test 1**

### **Laboratory, Measurements, and Significant Figures**

1. When disposing of chemicals
  - a) Pour them down the drain
  - b) Return them to their original containers
  - c) Follow the instructions of your teacher
  - d) Leave them on your lab bench
2. When tasting your experiments
  - a) Use a fume hood
  - b) Test the temperature first
  - c) Waft it towards you
  - d) Never taste your experiments
3. When in the laboratory you should wear
  - a) Sandals
  - b) Close-toed shoes
  - c) Open-toed shoes
  - d) No shoes
4. If you are not sure what to do during a lab, you must
  - a) Guess
  - b) Ask the teacher
  - c) Sit quietly
  - d) Change partners
5. What is the name of the following piece of lab equipment?



- a) Hot plate
- b) Beaker
- c) Test tube
- d) Clamp

6. What is the purpose of a glass rod in a laboratory?

- a) For stirring
- b) For measuring the volumes of liquids
- c) To hold chemicals
- d) To clean test tubes

7. What is the name of the following piece of lab equipment?



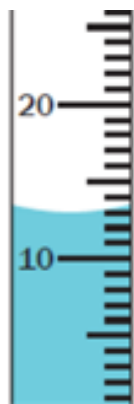
- a) Spatula
- b) Beaker Tongs
- c) Glass rod
- d) Lobster- claw

8. What is the name of the following piece of lab equipment?



- a) Hot plate
- b) Mini-stove
- c) Rubber stopper
- d) Test tube rack

9. What is the most accurate and proper volume measurement for the liquid in the figure below?



- a) 10.3 units
- b) 10.30 units
- c) 13.0 units
- d) 13 units

10. What lab tool is best for holding and mixing chemicals?

- a) Beaker
- b) Metal clamp
- c) Water
- d) Hot plate

11. What lab tool is important to use when heating a test tube over a bunsen burner?

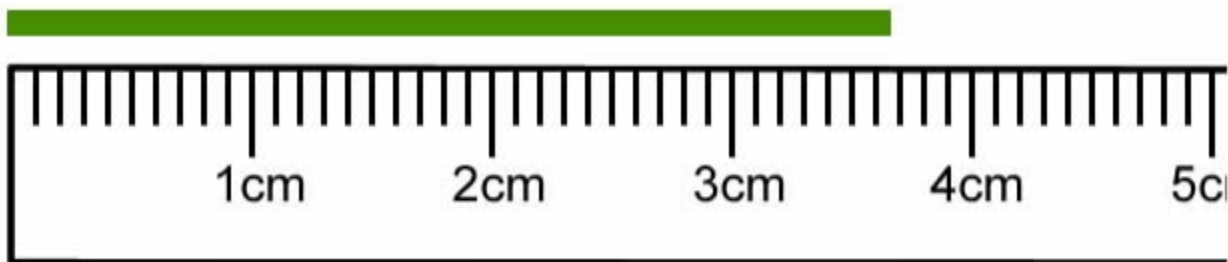
- a) Beaker
- b) Metal clamp
- c) Water
- d) Hot plate

12. Liquid is dispensed downward in pipets and burets. What is the current level of liquid in the buret shown below?



- a) 1.40 mL
- b) 2.60 mL
- c) 1.4 mL
- d) 2.6 mL

13. What is the length of the bold line in the image below?



- a) 3.60 cm
- b) 3.6 cm
- c) 3.7 cm
- d) 3.66 cm

**Answer questions 14-15 if the actual mass is 1.5 g.**

<u>Lucas</u>	<u>Maria</u>	<u>Carter</u>	<u>Zach</u>
16.5g	13.4g	1.0g	31.1g
16.7g	17.9g	1.5g	31.1g
16.9g	21.5g	2.0g	31.2g

14. Who is the most accurate?

- a) Lucas
- b) Maria
- c) Carter
- d) Zach

15. Who is the most precise?

- a) Lucas
- b) Maria
- c) Carter
- d) Zach

16. How many significant figures does the value, 20 g have?

- a) 0
- b) 1
- c) 2
- d) 3

17. How many significant figures does the value, 30.01 mL have?

- a) 1
- b) 2
- c) 3
- d) 4

18. How many significant figures does the value, 25.100 cm<sup>3</sup> have?

- a) 5
- b) 4
- c) 3
- d) ∞

19. How many significant figures does the value, 200 grapes have?

- a) 5
- b) 4
- c) 3
- d) ∞

**Match the following lab equipment tools (left) to their purpose in a laboratory (right) and bubble in the corresponding letters on your scantron.**

20. Balance

21. Erlenmeyer Flask

22. Ring stand

23. Rubber stopper

24. Pipet

25. Spatula

a. Seals the openings of glass containers

b. Has a wide stable base; used to hold and mix chemicals

c. Measures mass

d. Stand that supports other equipment when heating

e. Used to transfer solids

f. Used to transfer liquids