

General Chemistry  
Mr. MacGillivray  
Quiz #2:  
Units, Prefixes, and Measurement

Circle the larger quantity in each pair.

1. 1 kg or 1 g

2. 1 ml or 1 liter

3. 1m or 1 cm

4. 1 mm or 1 cm

5. 1 dm<sup>3</sup> or 1 dL

Match each unit with the proper quantity by writing the appropriate letters in the blanks.

6. \_\_\_\_\_ Heat

a. g/ml

7. \_\_\_\_\_ Temperature

b. Kelvin or °C

8. \_\_\_\_\_ Volume

c. meter

9. \_\_\_\_\_ Mass

d. newton

10. \_\_\_\_\_ Length

e. liter

11. \_\_\_\_\_ Weight

f. J or cal

12. \_\_\_\_\_ Density

g. kg

Indicate how many significant figures there are in each measurement.

13. \_\_\_\_\_ 0.034 m

16. \_\_\_\_\_ 34.0 x 10<sup>6</sup> m

14. \_\_\_\_\_ 34.00 m

17. \_\_\_\_\_ 0.03400 m

15. \_\_\_\_\_ 34.0 m

18. \_\_\_\_\_ 340 m

Solve each problem and report the answer to the correct number of sig figs.

19. 7.00 m x 6.00 m = \_\_\_\_\_ m<sup>2</sup>

20. 7.00 m + 6.00 m = \_\_\_\_\_ m

\*\*\* (Continued on next page.) \*\*\*

Examine the following data collected for the determination of the density of an unknown substance.

**Table 1. Density in g/mL**

	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>
	4.50	4.00	2.00
	4.50	4.02	7.00
	4.49	4.03	4.00
	4.51	4.03	3.00
<b>AVG</b>	<b>4.50</b>	<b>4.02</b>	<b>4.00</b>

Briefly discuss (one sentence) the accuracy and precision of each group.

21. Group 1

22. Group 2

23. Group 3

24. Report the volume of the liquid in the graduated cylinder at right. Use the correct number of significant figures in your answer.

Answer = \_\_\_\_\_ ml

