

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 dm³ 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 10⁶ 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 = _____ m²

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

	Group 1	Group 2	Group 3
	4.50	4.00	2.00
	4.50	4.02	7.00
	4.49	4.03	4.00
	4.51	4.03	3.00
AVG	4.50	4.02	4.00

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

