

Chemistry Chapter 2
Questions on Pages 35-39
2 points

Name: _____

Date: _____ Hour: _____

1. What does the number of significant digits in a measurement depend on? _____
2. What is a significant digit? _____

3. What indicates the exactness of a measurement? _____
4. State the four rules of significant digits:
 - a) _____
 - b) _____
 - c) _____
 - d) _____
5. How can you show that all of the digits in the measurement "7 000 m" are significant? _____

6. Explain the difference between a measured number and a counted number: _____

7. What is the SI unit of volume? _____
8. What is another name for a cubic decimeter (dm^3)? _____
9. A cubic centimeter (cm^3) is equal to _____
10. What is the definition of density? _____
11. What is the formula for density? _____
12. What can affect the volume of an object? _____

13. List the densities of the following materials:
- a) natural gas _____
 - b) air _____
 - c) table sugar _____
 - d) copper _____
14. According to figure 2.12, name the six substances more dense than water: _____

15. According to figure 2.12, name three substances less dense than water: _____

16. A piece of beeswax with a volume of 8.50 cm^3 is found to have a mass of 8.06 g. What is the density of the beeswax? [See sample problem on p. 39]
17. What is the density of a piece of concrete that has a mass of 8.76 g and a volume of 3.07 cm^3 ?
18. What is the density of a sample of ivory whose volume is 14.5 cm^3 and whose mass is 26.8 grams?
19. A piece of ancient pottery has a mass of 0.61 g and a volume of 0.26 mL. What is the density of the pottery?

NOTE: Since questions 17-19 are also practice problems from page 39, the answers are in the back of the book, but try them yourself before checking for help there!