

Study Guide –Chapter 1

CHM1033

Test # 1: (1.4 on Chapter 1, Chapters 2 and 3)

1. Express the following numbers using scientific notation.
 - a) 351 000 000 000
 - b) 0.000 860
 - c) 5 207 000
 - d) 0.000 000 050
2. True or False?
 - a) The decimal number 0.0000010 expressed in scientific notation is 1.0×10^6 _____
 - b) The decimal number 0.0210 expressed in scientific notation is 2.10×10^{-2} _____
 - c) The mass of an object, 4.55×10^{-3} g, expressed in decimal notation is 0.000455 g. _____
 - d) Light is an example of a chemical _____
3.
 - a) A substance that consists of one type of matter and always has the same composition and properties is called a _____
 - b) The study of substances that contain the element carbon is called _____
 - c) Any material used in or produced by a chemical reaction is a _____
4. What is each number in scientific notation?
 - a) 0.000000001
 - b) 0.143
 - c) 12450000
 - d) 0.00546

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