

Chapter 3 – Scientific Measurement

Chapter 3: 1 – 24, 26 - 28, 32, 34, 38, 40, 42, 46, 51, 56, 57, 62, 85, 87 (39 total)

Section Review 3.1

1. a. What is the difference between a *qualitative* measurement and a *quantitative* measurement?

Qualitative measurements are expressed in descriptive, non-numerical form, whereas quantitative measurements are expressed in a definite form, typically numerical.

- b. How is a number converted to scientific notation?

It is written as the product of a coefficient greater than or equal to one and less than ten, plus ten raised to a power.

2. Classify each statement as either qualitative or quantitative.

- a. The basketball is brown. *qualitative*
b. The diameter of the basketball is 31 centimeters. *quantitative*
c. The air pressure in the basketball is 12 pounds per square inch. *quantitative*
d. The surface of the basketball has indented seams. *qualitative*

3. Write each measurement in scientific notation.

- a. the length of a football field, 91.4 meters. 9.14×10^1 meters
b. the diameter of a carbon atom, 0.000 000 000 154 meter. 1.54×10^{-10} meters
c. the radius of Earth, 6 378 000 meters 6.378×10^6 meters
d. the diameter of a human hair, 0.000 008 meter. 8×10^{-6} meters
e. the average distance between the center of the sun and the center of Earth, 149 600 000 000 meters. 1.496×10^{11} meters

4. Solve each problem, and express each answer in correct scientific notation.

- a. $(4 \times 10^7)(2 \times 10^{-3}) = 8 \times 10^4$
b. $(6.3 \times 10^{-2}) / 2.1 \times 10^4 = 3.0 \times 10^{-6}$
c. $(4.6 \times 10^3) - (1.8 \times 10^3) = 2.8 \times 10^3$
d. $(7.1 \times 10^{-2}) + (5 \times 10^{-3}) = 7.6 \times 10^{-2}$

Chemistry Chapter 3 Scientific Measurement Test

Christian Drosten



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