

Student Solution Manual

Student Solution Manual: Skoog et al., *Fundamentals of Analytical Chemistry*, 10e,
© 2022, 978-0-357-45055-0, Chapter 4: Random Errors in Chemical Analysis

Some of the answers below may differ in format but have the same value as your result. Please check with your instructor if a specific format is desired.

Chapter 4

4-1. Define

Answers:

- (a) sample standard deviation.

The *sample standard deviation* is the standard deviation of a sample of data. It applies to a small set of data from the population. It uses deviations from the experimental mean and the number of degrees of freedom $N - 1$ in place of the population mean μ and N .

- (c) variance.

The *variance* is the square of the standard deviation.

4-2. Differentiate between

Answers:

- (a) parameter and statistic.

The term *parameter* refers to quantities such as the mean and standard deviation of a population or distribution of data. The term *statistic* refers to an estimate of a parameter that is made from a sample of data.

- (c) random and systematic error.

Random errors result from uncontrolled variables in an experiment while *systematic errors* are those that can be ascribed to a particular cause and can usually be determined.

4-3. Distinguish between

Answer:

- (a) the sample variance and the population variance.

The *sample variance* s^2 is the variance of a sample drawn from the population. It is

given by $s^2 = \frac{\sum_{i=1}^N (x_i - \bar{x})^2}{N - 1}$, where \bar{x} is the sample mean.

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