

# ELEMENTARY STATISTICS

## PRE & POST TEST QUESTIONS

1. It is the science of collecting, organizing, analyzing and interpreting data in order to make decisions.

- a) Data
- b) **Statistics**
- c) Variable
- d) Population

2. What is data?

- a) **Information coming from observations, counts, measurements or responses**
- b) The science of collecting, organizing, analyzing, and interpreting data in order to make decisions.
- c) A numerical description of a population characteristic.
- d) A numerical description of a sample characteristic.

3. Complete the definition:

A \_\_\_\_\_ consists of all subjects (human or otherwise) that are being studied.

- a) Statistics
- b) Number
- c) People
- d) **Population**

4. Complete the definition:

A \_\_\_\_\_ is a subset of a population.

- a) **sample**
- b) people
- c) statistics
- d) group

5. It is a numerical description of a population characteristic.

- a) **Parameter**
- b) People
- c) Statistics
- d) Data

6. It is a numerical description of a sample characteristic.

- a) **Statistic**
- b) Statistics
- c) Parameter
- d) Data

7. In 2006, major league baseball teams spent a total of \$2,336,706,685 on players' salaries. Does this numerical value describe a population parameter or a sample statistic?

- a) **As it refers to (all) MLB teams (population), this is a parameter.**

- b) As it refers to (all) MLB teams (population), this is a statistic.
- c) As it refers to some MLB teams (sample), this is a parameter.
- d) As it refers to some MLB teams (sample), this is a statistic.

8. What is the symbol used for population mean?

- a)  $\mu$
- b)  $\bar{x}$
- c)  $\sigma$
- d)  $s$

9. What is the symbol used for population standard deviation?

- a)  $\mu$
- b)  $\bar{x}$
- c)  $\sigma$
- d)  $s$

10. What is the symbol used for population variance (i.e. standard deviation squared)?

- a)  $\mu$
- b)  $\bar{x}$
- c)  $\sigma^2$
- d)  $\sigma$

11. What is the symbol used for sample mean?

- a)  $\mu$
- b)  $\bar{x}$
- c)  $\sigma$
- d)  $s$

12. Which of the following is an example of a statistical question?

- a) What color shirt are you wearing?
- b) How many dogs do you have?
- c) **What are the favorite ice cream flavors of CMS 6th graders?**
- d) Is it a nice day outside?

13. What is the median of the following dataset?

112, 120, 107, 104, 109

- a) **107**
- b) 112
- c) 120
- d) 104

14. What is the mode of the following dataset?

2.4, 2.2, 2.4, 2.7, 3.1, 2.6

- a) 2.2
- b) **2.4**
- c) 2.6
- d) 3.1

15. What is the mode of the following dataset?

11, 13, 15, 13, 11, 13, 17

- a) 11
- b) **13**

# Basic Statistics Questions And Answers

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