

Sample Q2

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Questions 1-5

The following is a set of data from a sample of size n ($n=7$): 16, 7, 2, 2, 10, 11, -6.

1) Find the mean of the data set

- A) 7 B) 7.28 C) 6 D) 2

2) Find the mode of the data set

- A) 6 B) 2 C) 7 D) 7.28

3) Find the standard deviation of the data set

- A) 53 B) 7.28 C) 6.74 D) 318

4) The five-number summary of the data set consists of _____, _____, _____, _____, and _____.

- A) -6, 1.75, 3.5, 5.25, 16 B) -6, 2, 4, 6, 16 C) -6, 2, 4.5, 11, 16 D) -6, 2, 7, 11, 16

5) What type of shape does the distribution of the sample appear to have?

- A) Right-skewed. B) Left-skewed. C) Symmetrical D) bell-shaped

6) Suppose you believe that the probability that you will get an A in Statistics is 0.5 and the probability that you will get an A in Marketing is 0.8. If these events are independent, what is the probability that you will get an A in both Statistics and Marketing?

- A) 0.40 B) 0.50 C) 0.80 D) 0.90

Questions 7-8: The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

7) Referring to the table, what proportion of the opinions involved Female or Neutral?

- A) 54 B) 194/200
C) 54/200 D) 140 /200

8) Referring to the table, given that the person is a Female, what proportion of the opinions involved Neutral?

- A) 54/90 B) 90/104 C) 54/104 D) 54/200

9) According to the empirical rule, if the data form a "bell-shaped" normal distribution, _____ percent of the observations will be contained within 1 standard deviations around the mean.

- A) 68.26 B) 83.75 C) 99.70 D) 95.44

Answer Key

Testname: SAMPLEQ2.TST

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- 1) C
- 2) B
- 3) B
- 4) D
- 5) B
- 6) A
- 7) D
- 8) C
- 9) A