

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**Find the mean of the data summarized in the given frequency distribution.**

- 1) The test scores of 40 students are summarized in the frequency distribution below. Find the mean score. 1) _____

Score	Students
50-59	7
60-69	5
70-79	10
80-89	6
90-99	12

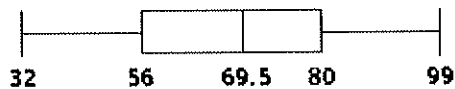
- A) 69.6 B) 77.3 C) 74.5 D) 73.4

Construct a boxplot for the given data. Include values of the 5-number summary in all boxplots.

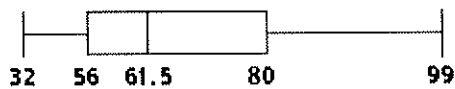
- 2) The test scores of 32 students are listed below. Construct a boxplot for the data set. 2) _____

32 37 41 44 46 48 53 55
 57 57 59 63 65 66 68 69
 70 71 74 74 75 77 78 79
 81 82 83 86 89 92 95 99

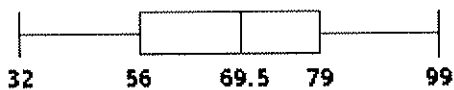
A)



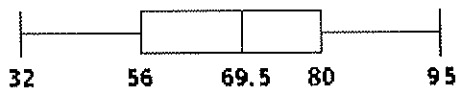
B)



C)



D)



Find the standard deviation for the given sample data. Round your answer to one more decimal place than is present in the original data.

- 3) 14 18 13 19 16 18 20 9 16 3) _____
- A) 2.0 B) 3.2 C) 3.4 D) 3.7

Use the empirical rule to solve the problem.

- 4) The systolic blood pressure of 18-year-old women is normally distributed with a mean of 120 mmHg and a standard deviation of 12 mmHg. What percentage of 18-year-old women have a systolic blood pressure between 96 mmHg and 144 mmHg?
- A) 99.7% B) 68% C) 95% D) 99.99%

4) _____

Solve the problem.

- 5) The ages of the members of a gym have a mean of 47 years and a standard deviation of 10 years. What can you conclude from Chebyshev's theorem about the percentage of gym members aged between 32 and 62?
- A) The percentage is at least 55.6% B) The percentage is at least 33.3%
C) The percentage is at most 55.6% D) The percentage is approximately 33.3%

5) _____

Answer Key

Testname: UNTITLED1

- 1) B
- 2) A
- 3) C
- 4) C
- 5) A