

Name _____

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

1) Find the mean for the following data set:

1) _____

- 15 31 34 20 26
 A) 26 B) 7.0 C) 25.2 D) 19

2) Find the median for the following data set:

2) _____

- 13 23 11 26 22 18
 A) 5.4 B) 15 C) 18.8 D) 20

3) Use the given frequency distribution to approximate the mean.

3) _____

Class	Frequency
0 – 19	19
20 – 39	17
40 – 59	12
60 – 79	12
80 – 99	19

- A) 30.2 B) 15.8 C) 48.7 D) 30.4

4) Following are heights, in inches, for a sample of college basketball players.

4) _____

78	83	82	78	78	80	81	79	79	83
77	78	84	82	80	80	82	84	78	80

Find the mean height of the basketball players.

- A) 4.6 inches B) 80.3 inches C) 70 inches D) 80.5 inches

5) Find the sample variance for the following data set:

5) _____

23 14 32 29 17

- A) 18 B) 58.5 C) 46.8 D) 7.6

6) Find the population standard deviation for the following data set: 6) _____

36 16 31 17 24

- A) 60.6 B) 75.7 C) 7.8 D) 8.7

7) Approximate the sample variance given the following frequency distribution. 7) _____

Class	Frequency
0 - 9	10
10 - 19	17
20 - 29	12
30 - 39	14
40 - 49	11

- A) 13.5 B) 182.5 C) 179.7 D) 13.4

8) A population has a mean $\mu = 46$ and standard deviation $\sigma = 15$. Find the z -score for a population value of 13. 8) _____

- A) -0.5 B) -2.2 C) -33 D) 0.9

9) For the data set below, find the first quartile. 9) _____

72	79	62	76	77	60	65	75	76	67	67
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- A) 76 B) 60 C) 65 D) 48.5

10) For the data set below, find the IQR. 10) _____

71	69	62	79	64	79	63	66	72	74	65
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- A) 74 B) 64 C) 17 D) 10

11) For the data set below, find the 37th percentile. 11) _____

64	95	74	70	32
58	24	46	25	17
59	51	7	60	36
67	67	54	33	60

- A) 46 B) 36 C) 48.5 D) 37

- 12) A soft-drink bottling company fills and ships soda in plastic bottles with a target volume of 354 milliliters. The filling machinery does not deliver a perfectly consistent volume of liquid to each bottle, and the three quartiles for the fill volume are $Q_1 = 351$, $Q_2 = 357$, and $Q_3 = 360$. 12) _____

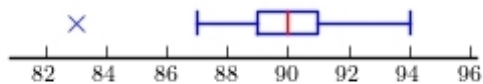
Find the IQR.

- A) 13.5 B) 10.8 C) 3 D) 9

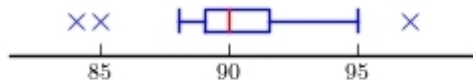
- 13) Construct a boxplot for the data set below. 13) _____

95	95	95	97	90
89	90	85	91	84
89	91	92	89	89
89	88	89	91	90

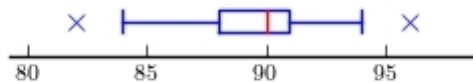
A)



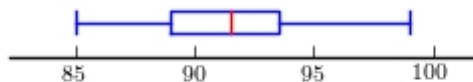
B)



C)



D)



Answer Key

Testname: UNTITLED1

- 1) C
- 2) D
- 3) C
- 4) B
- 5) B
- 6) C
- 7) B
- 8) B
- 9) C
- 10) D
- 11) A
- 12) D
- 13) B