

## Examrace

### Statistics MCQs-Numerical Descriptive Statistics and Sampling Part 3

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41. Given a negatively skewed distribution with a median of 8 and a mode of 10. Which of the following is not a possible value for the mean?

- a. 7
- b. 1
- c. 12
- d. 5
- e. 3

Answer: C

42. Which of the following data sets has the largest variance?

- a. 1; 2; 3; 4; ... 100
- b. 11; 12; 13; ... . 110
- c. 2; 4; 6; ... 200
- d. 1001; 1002; 1003; ... . 1100
- e. all of the above have equal variance

Answer: C

43. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49,91, 66. What is the sample variance for this sample?

- a. 18.46
- b. 19.46
- c. 378.71
- d. 389.21
- e. 329.98

Answer: C

44. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 52, 80, 49,91, 66. What is the sample variance for this sample?

- a. 19.73
- b. 19.46
- c. 378.71
- d. 389.21
- e. 329.98

Answer: D

45. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49,19, 66. What is the sample variance for this sample?

- a. 23.48
- b. 19.46
- c. 378.71
- d. 551.51
- e. 329.98

Answer: D

46. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 43, 98, 78, 76, 55, 80, 49,91, 66. What is the sample variance for this sample?

- a. 18.46
- b. 17.78
- c. 316.01
- d. 389.21
- e. 329.98

Answer: C

47. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49,91, 66. What is the range of marks for this sample?

- a. 64
- b. 98
- c. 79
- d. 55

e. 91

Answer: A

48. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 52, 80, 49, 91, 66. What is the range of marks for this sample?

a. 64

b. 98

c. 79

d. 55

e. 91

Answer: A

49. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49, 19, 66. What is the range of marks for this sample?

a. 64

b. 98

c. 79

d. 55

e. 91

Answer: C

50. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 43, 98, 78, 76, 55, 80, 49, 91, 66. What is the range of marks for this sample?

a. 64

b. 98

c. 79

d. 55

e. 91

Answer: D

51. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49, 91, 66. What is the coefficient of variation for this sample?

a. 0.28

b. 0.30

- c. 0.38
- d. 0.25
- e. 0.50

Answer: A

52. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 52, 80, 49, 91, 95. What is the coefficient of variation for this sample?

- a. 0.28
- \* b. 0.30
- c. 0.38
- d. 0.25
- e. 0.50

53. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 34, 98, 78, 76, 55, 80, 49, 19, 66. What is the coefficient of variation for this sample?

- a. 0.28
- b. 0.30
- c. 0.38
- d. 0.25
- e. 0.50

Answer: C

54. The following marks are the test 1 marks for 10 randomly selected STA100 students: 67, 43, 98, 78, 76, 55, 80, 49, 91, 66. What is the coefficient of variation for this sample?

- a. 0.28
- b. 0.30
- c. 0.38
- d. 0.25
- e. 0.50

Answer: D

55. The following calculations on a data set have been done for you:  $\sum x = 110$ ,  $\sum x^2 = 1235$ ,  $n = 10$ . What is the coefficient of variation?

- a. 0.152

- b. 0.495
- c. 0.754
- d. 1.047
- e. 0.500

Answer: A

56. The following calculations on a data set have been done for you:  $\sum x = 110$ ,  $\sum x^2 = 1235$ ,  $n = 12$ . What is the coefficient of variation?

- a. 0.152
- b. 0.495
- c. 0.754
- d. 1.047
- e. 0.500

Answer: B

57. The following calculations on a data set have been done for you:  $\sum x = 110$ ,  $\sum x^2 = 1235$ ,  $n = 15$ . What is the coefficient of variation?

- a. 0.152
- b. 0.495
- c. 0.754
- d. 1.047
- e. 0.500

Answer: C

58. The following calculations on a data set have been done for you:  $\sum x = 110$ ,  $\sum x^2 = 1235$ ,  $n = 20$ . What is the coefficient of variation?

- a. 0.152
- b. 0.495
- c. 0.754
- d. 1.047
- e. 0.500

Answer: D

59. Which of the following data sets has a mean of 3 and a variance of 0?

- a. 3 3 3 3 3
- b. 2 3 4 4 2
- c. 1 3 5 1 4
- d. 9 9 9 9 9
- e. None of the above

Answer: A

60. The length of the box in the box and whisker plot portrays the:

- a. Median
- b. Upper quartile
- c. Mean
- d. Range
- e. Interquartile range

Answer: E

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