STATISTICS: NORMAL DISTRIBUTION, STANDARD DEVIATION, AND CONFIDENCE INTERVALS - PRACTICE TEST | NEW BRUNSWICK FOUNDATIONS OF MATHEMATICS 120 · UNIT A · 25 QUESTIONS

Statistics: Normal Distribution, Standard Deviation, and Confidence Intervals, 25-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1

The mean of the data 10, 20, 30, 40, 50 is

Question 1

The mean of the data 10, 20, 30, 40, 50 is

ANSWER

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2

The mean of the data 5, 15, 25, 35 is

Question 2

The mean of the data 5, 15, 25, 35 is

ANSWER

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3

The mean of the data 12, 18, 24, 30, 36 is

Question 3

The mean of the data 12, 18, 24, 30, 36 is

ANSWER

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4

The mean of the data 2, 4, 6, 8, 10, 12 is

Question 4

The numbers are 12, 15, 18. Their mean is

ANSWER

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5

The mean of the data 20, 30, 40, 50, 60, 70 is

Question 5

A student scores 70, 80 and 90 on three tests. The mean score is

ANSWER

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6 The mean of the data 8, 12, 16, 20, 24 is

Question 6

The mean of 4, 9, 11 and 16 is

ANSWER

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7 The mean of the data 3, 9, 15, 21, 27 is

Question 7

Five numbers have a mean of 20. Their total is

ANSWER

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8 The mean of the data 100, 110, 120, 130, 140 is

Question 8

A data set has mean 50. Every value is increased by 10. The new mean is

ANSWER

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9

The median of the data 10, 20, 30, 40, 50 is

Question 9

The median of the data 10, 20, 30, 40, 50 is

ANSWER

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10

The median of the data 5, 15, 25, 35 is

Question 10

The median of the data 5, 15, 25, 35 is

ANSWER

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11

The median of the data 12, 18, 24, 30, 36 is

Question 11

The median of the data 12, 18, 24, 30, 36 is

ANSWER

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12 The median of the data 2, 4, 6, 8, 10, 12 is

Question 12

The ordered data are 2, 5, 9, 14, 30. The median is

ANSWER

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13 The median of the data 20, 30, 40, 50, 60, 70 is

Question 13

A data set has values 8, 3, 11, 5. The median is

ANSWER

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14 The median of the data 8, 12, 16, 20, 24 is

Question 14

The median of 7, 2, 9, 4, 6 is

ANSWER

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15 The median of the data 3, 9, 15, 21, 27 is

Question 15

A data set has an even number of values. Its median is found by

A) taking the middle value

B) averaging the two middle values

C) taking the largest value

D) adding all values

ANSWER

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16 The median of the data 100, 110, 120, 130, 140 is

Question 16

The median is preferred over the mean when the data contain

A) an outlier

B) no values

C) only whole numbers

D) equal values

ANSWER

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17 The population standard deviation of 10, 20, 30, 40, 50 to two decimal places is

Question 17

The population standard deviation of 10, 20, 30, 40, 50 to two decimal places is

ANSWER

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18 The population standard deviation of 2, 4, 6, 8, 10 to two decimal places is

Question 18

The population standard deviation of 2, 4, 6, 8, 10 to two decimal places is

ANSWER

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19 The population standard deviation of 5, 15, 25, 35, 45 to two decimal places is

Question 19

The population standard deviation of 5, 15, 25, 35, 45 to two decimal places is

ANSWER

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20 The population standard deviation of 12, 18, 24, 30, 36 to two decimal places is

Question 20

The data are 10, 10, 10, 10. The population standard deviation, to two decimal places, is

ANSWER

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21 The population standard deviation of 4, 8, 12, 16, 20 to two decimal places is

Question 21

The data are 0 and 10. The population standard deviation, to two decimal places, is

ANSWER

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22 The population standard deviation of 20, 40, 60, 80 to two decimal places is

Question 22

The data are 2, 4, 4, 4, 5, 5, 7, 9. The population standard deviation is closest to

A) 1

B) 2

C) 4

D) 8

ANSWER

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23 The population standard deviation of 6, 12, 18, 24, 30 to two decimal places is

Question 23

Two data sets have the same mean. The set with the larger standard deviation is the one whose values are

A) more spread out

B) closer together

C) all equal

D) fewer in number

ANSWER

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24 The population standard deviation of 10, 30, 50, 70, 90 to two decimal places is

Question 24

A score of 12 comes from a distribution with mean 10 and standard deviation 2. Its z score is

ANSWER

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25 For a value 70 with mean 60 and standard deviation 10, the z score is

Question 25

For a value 70 with mean 60 and standard deviation 10, the z score is

ANSWER

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ANSWER KEY

1. 30
2. 20
3. 24
4. 7
5. 45
6. 16
7. 15
8. 120
9. 30
10. 20
11. 24
12. 7
13. 45
14. 16
15. 15
16. 120
17. 14.14
18. 2.83
19. 14.14
20. 8.49
21. 5.66
22. 22.36
23. 8.49
24. 28.28
25. 1

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