MATHEMATICS 3202 · NEWFOUNDLAND AND LABRADOR

Mathematics 3202

Practice Test

Unit B: Working with Data

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

A box plot has first quartile 10 and third quartile 30 . The interquartile range is

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Question 2

A quantity changes from 50 to 60 . The percent change is, in percent

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Question 3

The mean of the data 4, 7, 9, 12 is

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Question 4

The median of the data $3,\ 5,\ 8,\ 12,\ 20$ is

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Question 5

A weighted mean uses weights 2 and 3 for values 80 and 90 . The weighted mean is

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Question 6

The mean of $6,\ 9,\ 12,\ 15,\ 18$ is

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Question 7

A data set has 40 values. The value 12 occurs 10 times. Its relative frequency is, as a decimal

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Question 8

A frequency table has frequencies 5 , 8 and 7 . The total frequency is

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Question 9

A graph with a broken vertical axis can be misleading because it

A) hides the data

B) changes the mean

C) exaggerates small differences

D) removes outliers

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Question 10

As one variable increases and the other also tends to increase, the correlation is

A) positive

B) negative

C) zero

D) perfect

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Question 11

As one variable increases and the other tends to decrease, the correlation is

A) positive

B) negative

C) zero

D) perfect

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Question 12

In a class of 25 students, 20 scored below a mark. The percentile rank of the mark is

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Question 13

The median of 1, 2, 3, 4, 5, 6 is

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Question 14

The middle value of an ordered data set is the

A) mean

B) mode

C) range

D) median

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Question 15

The mode of $1,\ 2,\ 2,\ 3,\ 4,\ 4,\ 4$ is

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Question 16

A box plot has first quartile 15 and third quartile 45 . The interquartile range is

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Question 17

A quantity changes from 80 to 100 . The percent change is, in percent

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Question 18

The mean of the data $10,\ 20,\ 30,\ 40$ is

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Question 19

The median of the data $4,\ 6,\ 10,\ 14$ is

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Question 20

A weighted mean uses weights 1 and 4 for values 70 and 85 . The weighted mean is

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Question 21

The mean of $12,\ 18,\ 24$ is

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Question 22

A box plot has first quartile 20 and third quartile 50 . The interquartile range is

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Question 23

A quantity changes from 200 to 150 . The percent change is, in percent

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Question 24

The mean of the data 3, 6, 6, 9 is

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Question 25

The median of the data 7, 9, 11, 13, 15, 17 is

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ANSWER KEY

1. 20
2. 20
3. 8
4. 8
5. 86
6. 12
7. 0.25
8. 20
9. C
10. A
11. B
12. 80
13. 3.5
14. D
15. 4
16. 30
17. 25
18. 25
19. 8
20. 82
21. 18
22. 30
23. -25
24. 6
25. 12

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