NOVA SCOTIA MATHEMATICS AT WORK 12 · UNIT B · 25 QUESTIONS

Measures of Central Tendency and Scatterplots — 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 **Find the mean of 4, 6, 8, 10, and 12.**

ANSWER _____

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2 **Find the mean of 5, 5, 10, 10, and 20.**

ANSWER _____

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3 **Find the mean of 2, 4, 6, 8, and 10.**

ANSWER _____

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4 **Find the mean of 10, 20, 30, 40, and 50.**

ANSWER _____

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5 **Find the mean of 3, 6, 9, 12, and 15.**

ANSWER _____

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6 **Find the mean of 8, 8, 12, 12, and 20.**

ANSWER _____

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7 **Find the mean of 6, 10, 14, 18, and 22.**

ANSWER _____

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8 **Find the mean of 4, 8, 12, 16, and 20.**

ANSWER _____

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9 **Find the mean of 7, 14, 21, 28, and 35.**

ANSWER _____

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10 **Find the mean of 5, 15, 25, 35, and 45.**

ANSWER _____

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11 **Find the mean of 9, 12, 15, 18, and 21.**

ANSWER _____

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12 **Find the mean of 6, 6, 18, 18, and 12.**

ANSWER _____

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13 **Find the mean of 10, 15, 20, 25, and 30.**

ANSWER _____

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14 **Find the mean of 4, 12, 20, 28, and 36.**

ANSWER _____

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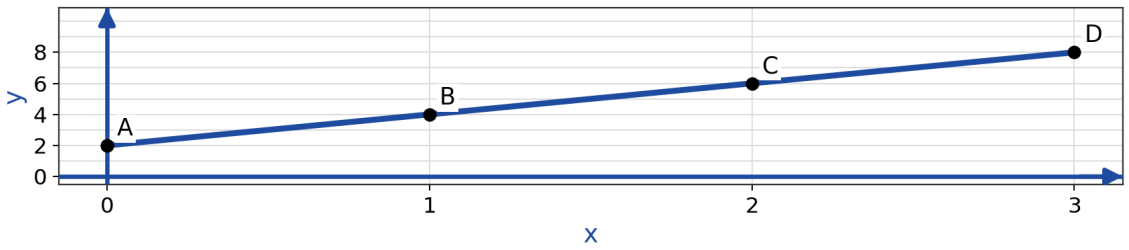
15 **The points in the diagram rise from left to right. The correlation is**



A positive

B negative

C zero

D perfectly curved

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16 **The median of a data set is**

A the sum ÷ the count

B the middle value when ordered

C the most common value

D the largest value

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17 **The mode of a data set is**

A the middle value

B the average

C the most common value

D the range

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18 **The range of a data set is**

A largest + smallest

B largest ÷ smallest

C smallest ÷ largest

D largest - smallest

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19 **An outlier is a value that is**

A far from the other values

B equal to the mean

C the median

D the most common

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20 **A scatterplot shows the relationship between**

- A one variable only
- B two variables
- C three variables at once
- D no variables

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21 **A positive correlation means as one variable increases, the other**

- A tends to decrease
- B stays the same
- C tends to increase
- D becomes zero

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22 **A negative correlation means as one variable increases, the other**

A tends to increase

B stays the same

C becomes zero

D tends to decrease

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23 **A line of best fit**

A summarises the trend in a scatterplot

B joins every point exactly

C is always horizontal

D is always vertical

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24

Correlation alone does not prove

A a trend

B causation

C a pattern

D a relationship

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25

The mean is strongly affected by

A the mode

B the count only

C outliers

D the smallest value only

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ANSWER KEY

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

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