Statistics — Practice Test

Prince Edward Island Pre-Calculus Elective 11 • 25 questions

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 **A lobster boat records daily catches of 12, 14, 16, 18, 20 kilograms over five days. What is the mean daily catch in kilograms**

ANSWER _____

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2 **A lobster boat records daily catches of 12, 14, 16, 18, 20 kilograms over five days. What is the range of the daily catches in kilograms**

ANSWER _____

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3 **A class has 5 students chosen equally, and 2 of them are in Grade 11. If one student is chosen at random, what is the probability the student is in Grade 11, as a decimal**

ANSWER _____

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4 **The weekly temperatures in degrees are 12, 14, 16, 18, 20. What is the median temperature**

ANSWER _____

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5 **A histogram shows the distribution of**

A categories only

B two variables

C probabilities only

D numerical data in intervals

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6 **A larger standard deviation means the data are**

A more spread out

B less spread out

C more centred

D symmetric

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7 **A negative correlation means as one variable increases, the other tends to**

A increase

B stay constant

C decrease

D become zero

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8 **A positive correlation means as one variable increases, the other tends to**

A decrease

B increase

C stay constant

D become zero

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9 **A scatter plot is used to look for a relationship between**

A two numerical variables

B one category

C three categories

D probabilities

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10 **A skewed distribution has a long tail on**

A both sides equally

B neither side

C one side

D the centre

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11 **A smaller standard deviation means the data are**

A spread widely

B clustered near the mean

C skewed

D bimodal

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12 **Correlation alone does not prove**

- A association
- B a pattern
- C a trend
- D causation

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13 **In a data set, an outlier is a value that is**

- A equal to the mean
- B the mode
- C far from the other values
- D in the middle

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14 **In a symmetric distribution, the mean and median are**

A far apart

B always zero

C unrelated

D approximately equal

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15 **The first quartile marks the value below which about**

A half the data lies

B one quarter of the data lies

C three quarters lie

D all data lies

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16 **The interquartile range is the difference between the third quartile and the**

A median

B mean

C maximum

D first quartile

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17 **The mean of 10, 20, 30 is**

A 15

B 25

C 20

D 30

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18 **The median is resistant to outliers because it depends on**

- A every value equally
- B position in the ordered list
- C the largest value
- D the sum

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19 **The median of 3, 6, 8, 11, 14, 20 is**

- A 8
- B 9.5
- C 11
- D 10

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20 **A lobster boat records daily catches of 8, 9, 11, 12, 15 kilograms over five days. What is the mean daily catch in kilograms**

ANSWER _____

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21 **A lobster boat records daily catches of 8, 9, 11, 12, 15 kilograms over five days. What is the range of the daily catches in kilograms**

ANSWER _____

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22 **A class has 5 students chosen equally, and 1 of them are in Grade 11. If one student is chosen at random, what is the probability the student is in Grade 11, as a decimal**

ANSWER _____

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23 **The weekly temperatures in degrees are 8, 9, 11, 12, 15. What is the median temperature**

ANSWER _____

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24 **A lobster boat records daily catches of 20, 25, 30, 35, 40 kilograms over five days. What is the mean daily catch in kilograms**

ANSWER _____

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25 **A lobster boat records daily catches of 20, 25, 30, 35, 40 kilograms over five days. What is the range of the daily catches in kilograms**

ANSWER _____

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ANSWER KEY

1.	16.00	**10.**	C	**19.**	B
2.	8	**11.**	B	**20.**	11.00
3.	0.40	**12.**	D	**21.**	7
4.	16	**13.**	C	**22.**	0.20
5.	D	**14.**	D	**23.**	11
6.	A	**15.**	B	**24.**	30.00
7.	C	**16.**	D	**25.**	20
8.	B	**17.**	C		
9.	A	**18.**	B		

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