Statistics and Probability — Practice Test

Prince Edward Island Foundations of Mathematics 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 bag holds 10 marbles of equal size, and 3 of them are red. A marble is drawn at random. What is the probability of drawing a red marble, as a decimal**

ANSWER _____

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2 **The data set is 4, 6, 8, 10, 12. What is the mean of the data set**

ANSWER _____

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3 **The data set is 4, 6, 8, 10, 12. What is the median of the data set**

ANSWER _____

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4 **The data set is 4, 6, 8, 10, 12. What is the range of the data set**

ANSWER _____

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5 **A probability of 0 means the event**

A cannot happen

B always happens

C is likely

D is fair

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6 **A census collects data from**

A a small sample only

B one person only

C every member of a population

D volunteers only

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7 **A data set with one very large outlier will pull the mean**

A away from the outlier

B to the median

C to zero

D toward the outlier

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8 **A fair coin tossed twice has how many equally likely outcomes in total**

A 2

B 3

C 6

D 4

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9 **A sample that fairly represents a whole population is called a**

A biased sample

B representative sample

C convenience sample

D census

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10 An outcome that is certain to happen has probability

- **A** 1
- **B** 0
- **C** $\frac{1}{2}$
- **D** 2

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11 Drawing a card from a standard deck, the probability of drawing an ace is

- **A** $\frac{1}{4}$
- **B** $\frac{1}{52}$
- **C** $\frac{1}{13}$
- **D** $\frac{1}{2}$

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12 **If a spinner has 4 equal sections, the probability of landing on one named section is**

- **A** $\frac{1}{2}$
- **B** $\frac{1}{4}$
- **C** 1
- **D** $\frac{3}{4}$

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13 **If two events cannot happen at the same time, they are called**

- **A** independent
- **B** mutually exclusive
- **C** complementary
- **D** dependent

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14 **In a bar graph, the height of each bar shows the**

- A frequency of that category
- B mean of the data
- C range of the data
- D median of the data

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15 **The mean of a data set is found by**

- A adding all values and dividing by the number of values
- B subtracting the smallest from the largest
- C choosing the middle value
- D choosing the most common value

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16 **The median of an ordered data set is the**

A most common value

B middle value

C largest value

D average of all values

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17 **A bag holds 4 marbles of equal size, and 1 of them are red. A marble is drawn at random. What is the probability of drawing a red marble, as a decimal**

ANSWER _____

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18 **The data set is 5, 5, 8, 9, 13. What is the mean of the data set**

ANSWER _____

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19 **The data set is 5, 5, 8, 9, 13. What is the median of the data set**

ANSWER _____

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20 **The data set is 5, 5, 8, 9, 13. What is the range of the data set**

ANSWER _____

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21 **A probability of 1 means the event**

A never happens

B always happens

C is unlikely

D is fair

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22 **A bag holds 5 marbles of equal size, and 2 of them are red. A marble is drawn at random. What is the probability of drawing a red marble, as a decimal**

ANSWER _____

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23 **The data set is 2, 4, 6, 6, 12. What is the mean of the data set**

ANSWER _____

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24 **The data set is 2, 4, 6, 6, 12. What is the median of the data set**

ANSWER _____

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25 **The data set is 2, 4, 6, 6, 12. What is the range of the data set**

ANSWER _____

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ANSWER KEY

1. 0.30
2. 8.00
3. 8
4. 8
5. A
6. C
7. D
8. D
9. B
10. A
11. C
12. B
13. B
14. A
15. A
16. B
17. 0.25
18. 8.00
19. 8
20. 8
21. B
22. 0.40
23. 6.00
24. 6
25. 10

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