NORTH DAKOTA GEOMETRY · NORTH DAKOTA

North Dakota Geometry
Practice Test

Unit 4: Data Analysis and Probability

10 Questions

Original practice test based on the North Dakota 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 coin is tossed and a die is rolled. The probability of heads and a 6 is

A) $\frac{1}{6}$

B) $\frac{1}{2}$

C) $\frac{1}{12}$

D) $\frac{1}{3}$

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Question 2

A bag has 5 red balls and 5 blue balls. Two balls are drawn without replacement. The probability both are blue, to two decimal places, is about

A) 0.25

B) 0.22

C) 0.5

D) 0.2

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Question 3

The probability of an event is 0.85. The probability the event does not happen is

A) 0.85

B) 1.15

C) 0.15

D) 0.015

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Question 4

In a survey of 40 students, 14 like both sports and music, 6 like sports only, 12 like music only, and 8 like neither. The probability a randomly chosen student likes music is

A) 0.35

B) 0.65

C) 0.5

D) 0.2

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Question 5

Using the same survey, the probability a student likes sports, given that the student likes music, to two decimal places, is about

A) 0.35

B) 0.65

C) 0.54

D) 0.7

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Question 6

A line of best fit is $y = -3x + 20$. The predicted value of y when $x = 5$ is

A) 35

B) 5

C) -5

D) 15

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Question 7

For a data point, the actual value is 18 and the predicted value is 20. The residual is

A) 2

B) 38

C) -2

D) 0

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Question 8

A correlation coefficient of $r = -0.88$ indicates a

A) strong positive correlation

B) weak negative correlation

C) no correlation

D) strong negative correlation

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Question 9

Heights are normally distributed with mean 50 and standard deviation 10. About what percent of values are between 30 and 70?

A) 68%

B) 95%

C) 99.7%

D) 50%

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Question 10

The data are 10, 20, 30, and 40. The mean is ____

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ANSWER KEY

1. C
2. B
3. C
4. B
5. C
6. B
7. C
8. D
9. B
10. 25

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