ARKANSAS ALGEBRA II · UNIT 4 · 10 QUESTIONS

Statistics and Probability — 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 **In a normal distribution, about how many values out of 100 lie within two standard deviations of the mean?**

- A 68
- B 95
- C 50
- D 99

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2 **A correlation coefficient of 0.85 describes a**

- A Weak negative relationship
- B No relationship
- C Strong positive relationship
- D Weak positive relationship

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3 **The slope of the regression line y = -4x + 9 is**

A 9

B -9

C 4

D -4

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4 **Using y = 2x - 5, the predicted value at x = 8 is**

A 21

B 16

C 3

D 11

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5 In a class of 40, 25 like art and 10 of those also like music Given a student likes art, the probability the student likes music is

- A $\frac{1}{4}$
- B $\frac{2}{5}$
- C $\frac{5}{8}$
- D $\frac{1}{2}$

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6 In a data set, the first quartile is 30 and the third quartile is 72. The interquartile range is

- A 102
- B 30
- C 42
- D 72

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7 **In 150 trials with probability 0.4 of success each time, the expected number of successes is**

- **A** 40
- **B** 90
- **C** 60
- **D** 375

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8 **In a survey, 90 out of 150 people choose option B The fraction who choose option B is**

- **A** $\frac{1}{2}$
- **B** $\frac{3}{5}$
- **C** $\frac{2}{3}$
- **D** $\frac{5}{8}$

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9 **The mean of 8, 16, 24, 32 is ____**

ANSWER _____

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10 **Two fair dice are rolled The probability the sum is 12 is**

A $\frac{1}{36}$

B $\frac{1}{18}$

C $\frac{1}{12}$

D $\frac{1}{6}$

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ANSWER KEY

1.	B	**5.**	B	**9.**	20
2.	C	**6.**	C	**10.**	A
3.	D	**7.**	C		
4.	D	**8.**	B		

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