COLORADO 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 **The probability of rolling an even number on a fair six-sided die is**

- **A** $\frac{1}{3}$
- **B** $\frac{1}{2}$
- **C** $\frac{2}{3}$
- **D** $\frac{1}{6}$

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2 The probability of drawing a face card (jack, queen, or king) from a standard 52-card deck is

- **A** $\frac{1}{4}$
- **B** $\frac{1}{2}$
- **C** $\frac{1}{13}$
- **D** $\frac{3}{13}$

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3 The number of combinations of 2 items chosen from 7 is

- **A** 49
- **B** 14
- **C** 21
- **D** 42

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4 The number of permutations of 3 letters chosen from 5, in order, is

- A 10
- B 15
- C 60
- D 125

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5 A regression line is y = 3x - 2. The predicted value of y when x = 5 is

- A 15
- B 10
- C 17
- D 13

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6 **A correlation of -0.15 shows**

- **A** a strong negative relationship
- **B** no relationship at all
- **C** a strong positive relationship
- **D** a weak negative relationship

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7 **A bag has 4 green marbles and 6 red marbles. Two marbles are drawn without replacement. The probability both are green is**

- **A** $\frac{3}{10}$
- **B** $\frac{2}{15}$
- **C** $\frac{4}{25}$
- **D** $\frac{1}{5}$

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8 **In a class of 30, 18 play a sport and 12 play an instrument, with 6 doing both. The number doing neither is**

ANSWER _____

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9 **The probability of at least one head in two fair coin flips is**

A $\frac{1}{4}$

B $\frac{1}{2}$

C $\frac{3}{4}$

D 1

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10 **A fair coin is flipped 3 times. The probability of exactly 1 head is**

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

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ANSWER KEY

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

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