ALABAMA ALGEBRA II WITH STATISTICS · 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 1
- B 1
- C 2
- D 1

Understand It with Pulse | Flag a mistake

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

- A 1
- B 1
- C 1
- D 3

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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

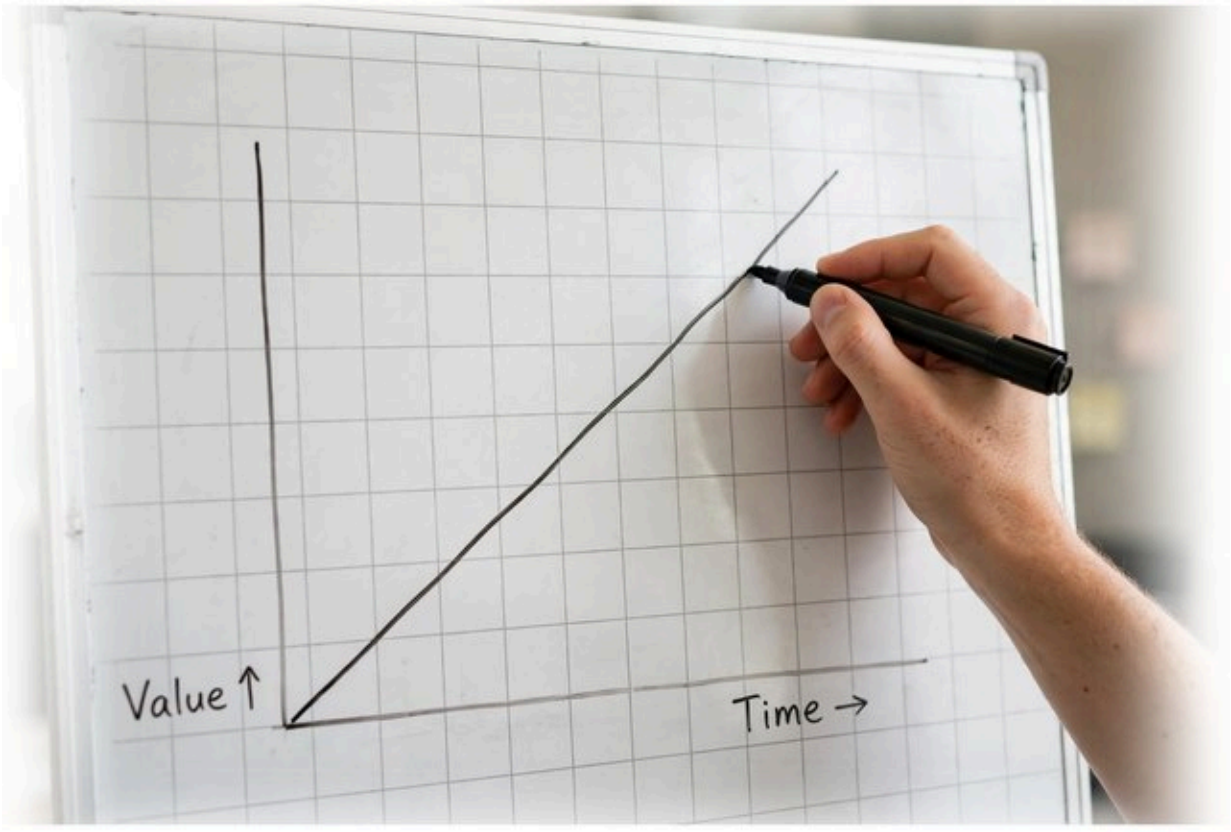
B 15

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 $\frac{3}{}$

B $\frac{2}{}$

C $\frac{4}{}$

D $\frac{1}{}$

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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 1

B 1

C 3

D 1

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

A 3

B 1

C 5

D 1

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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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