ARKANSAS STATISTICS · UNIT 2 · 10 QUESTIONS

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 A is 0.5 and the probability of both A and B is 0.2 The probability of B given A is**

- A 0.4
- B 0.1
- C 0.7
- D 0.25

Understand It with Pulse | Flag a mistake

2 **A fair coin is tossed three times The probability of three heads in a row is**

A 0.25

B 0.125

C 0.375

D 0.5

Understand It with Pulse | Flag a mistake

3 **A game pays 50 dollars with probability 0.2 and 0 dollars otherwise The expected value of the game is**

A 5 dollars

B 20 dollars

C 10 dollars

D 50 dollars

Understand It with Pulse | Flag a mistake

4 **A binomial experiment has 50 trials with success probability 0.4 The mean number of successes is**

A 10

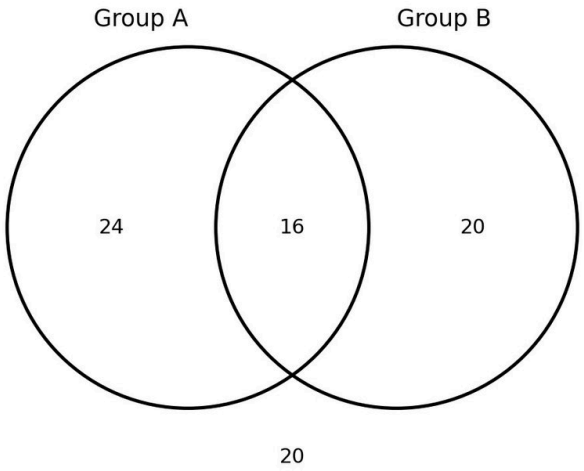
B 30

C 50

D 20

Understand It with Pulse | Flag a mistake

5 **The diagram shows 80 students surveyed 24 are in group A only, 16 are in both groups, 20 are in group B only, and 20 are in neither group The probability that a randomly chosen student is in group B is**



Question 5

The diagram shows 80 students surveyed 24 are in group A only, 16 are in both groups, 20 are in group B only, and 20 are in neither group The probability that a randomly chosen student is in group B is

A) 0.45

B) 0.3

C) 0.5

D) 0.7

A 0.45

B 0.3

C 0.5

D 0.7

Understand It with Pulse

Flag a mistake

6 **Sampling with replacement keeps the probability the same on each draw because the item is**

- A Removed
- B Returned before the next draw
- C Changed
- D Counted twice

Understand It with Pulse | Flag a mistake

7 **Two events that cannot both happen are called**

- A Independent
- B Conditional
- C Mutually exclusive
- D Complementary only

Understand It with Pulse | Flag a mistake

8 The sum of the probabilities of all outcomes in a sample space is

- A 0
- B 0.5
- C 2
- D 1

Understand It with Pulse | Flag a mistake

9 A probability tree for two coin tosses has how many final outcomes

- A 4
- B 2
- C 3
- D 6

Understand It with Pulse | Flag a mistake

10 **A fair coin is tossed twice What is the probability of exactly two heads**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	A	**9.**	A
2.	B	**6.**	B	**10.**	0.25
3.	C	**7.**	C		
4.	D	**8.**	D		

© 2026 Brett Robbins. All Rights Reserved.