ARIZONA STATISTICS · ARIZONA

Arizona Statistics

Practice Test

Unit 2: Probability

10 Questions

Original practice test based on the Arizona 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 game pays 40 dollars with probability $\frac{1}{4}$ and 0 dollars otherwise. The expected value, in dollars, is

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Question 2

The probability of exactly 2 heads in 3 fair coin flips is

A) $\frac{1}{8}$

B) $\frac{1}{4}$

C) $\frac{3}{8}$

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

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Question 3

A bag has 6 green marbles and 4 yellow marbles. Two are drawn without replacement. The probability of green then yellow is

A) $\frac{4}{15}$

B) $\frac{2}{5}$

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

D) $\frac{8}{15}$

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Question 4

In a group of 80 students, 35 take art and 40 take music, with 15 taking both The number who take neither subject is

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Question 5

A 10 −section spinner has sections numbered 1 through 10. The probability of spinning an odd number is

A) $\frac{1}{10}$

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

C) $\frac{1}{4}$

D) $\frac{3}{5}$

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Question 6

The probability of an event is 0.8. The probability it does not happen is

A) 0.8

B) 1.8

C) 0.2

D) 0.08

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Question 7

Two fair dice are rolled. The probability that the sum is 7 is

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

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

C) $\frac{7}{36}$

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

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Question 8

A card is drawn from a standard deck. The probability it is a queen is

A) $\frac{1}{52}$

B) $\frac{1}{13}$

C) $\frac{1}{4}$

D) $\frac{3}{13}$

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Question 9

If $P(A) = 0.6$, then $P(\text{ not } A)$ is

A) 1.6

B) 0.6

C) 0.06

D) 0.4

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Question 10

A fair die is rolled twice. The probability of two sixes is

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

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

C) $\frac{1}{36}$

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

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ANSWER KEY

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

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