CALIFORNIA STATISTICS · UNIT 2 · 10 QUESTIONS

Probability and Probability Distributions — 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 **A card is drawn from a standard deck. The probability it is a king is**

- **A** $\frac{1}{52}$
- **B** $\frac{1}{4}$
- **C** $\frac{1}{13}$
- **D** $\frac{4}{13}$

Understand It with Pulse | Flag a mistake

2 The expected value of a fair coin toss counting 1 for heads and 0 for tails is

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

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3 A binomial experiment has n = 50 and p = 0.3. The mean is

- A 10.5
- B 15
- C 35
- D 50

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4 **If P(A) = 0.8, then P(not A) is**

ANSWER _____

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5 **A spinner has 5 equal sections. The probability of one section is**

ANSWER _____

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6 **Two independent events have probabilities 0.4 and 0.5. The probability both occur is**

ANSWER _____

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7 **A binomial experiment has n = 40 and p = 0.25. The mean is**

ANSWER _____

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8 **A probability must lie between**

A 1 and 2

B 0 and 2

C -1 and 1

D 0 and 1

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9 **Events are independent if knowing one does not change the probability of the**

A total

B mean

C sample

D other

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10 **A normal distribution is symmetric about its**

A median

B range

C variance

D maximum

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ANSWER KEY

1.	C	**5.**	0.2	**9.**	D
2.	B	**6.**	0.2	**10.**	A
3.	B	**7.**	10		
4.	0.2	**8.**	D		

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