ALBERTA MATH 30-2 · UNIT 3 · 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 **Events A and B are mutually exclusive, with P(A) = 0.22 and P(B) = 0.35 . The value of P(A or B) is**

- A 0.57
- B 0.077
- C 0.43
- D 0.13

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2 **A standard die is rolled twice. The probability of rolling a 5 both times is**

- **A** $\frac{1}{6}$
- **B** $\frac{1}{18}$
- **C** $\frac{1}{12}$
- **D** $\frac{1}{36}$

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3 **A card is drawn from a standard deck, replaced, and then another card is drawn. The probability that both cards are hearts is**

- **A** $\frac{1}{16}$
- **B** $\frac{1}{17}$
- **C** $\frac{1}{4}$
- **D** $\frac{1}{8}$

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4 **A box contains 9 red pens and 6 blue pens. Two pens are drawn without replacement. The probability that both pens are blue, to the nearest hundredth, is _____**

ANSWER _____

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5 **A box contains 6 chocolate cupcakes and 4 vanilla cupcakes. One cupcake is taken and eaten. Given that the first cupcake was chocolate, the probability that a second cupcake taken is also chocolate is**

A $\frac{3}{5}$

B $\frac{1}{2}$

C $\frac{5}{9}$

D $\frac{2}{3}$

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6 For two events A and B , P(A) = $\frac{5}{12}$, P(B) = $\frac{1}{3}$, and P(A and B) = $\frac{1}{6}$. The value of P(A or B) is

A $\frac{3}{4}$

B $\frac{7}{12}$

C $\frac{11}{12}$

D $\frac{5}{12}$

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7 The graph below shows the probability distribution for the points scored on one spin of a game spinner. The expected value of one spin, in points, is ____ Record your answer as a decimal.

ANSWER _____

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8 Of the 200 members of a gym, 80 swim and 50 both swim and lift weights. Given that a randomly chosen member swims, the probability that the member lifts weights is

- **A** $\frac{2}{5}$
- **B** $\frac{5}{8}$
- **C** $\frac{5}{13}$
- **D** $\frac{1}{4}$

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9 A parking lot has 40 cars. Of the 25 domestic cars, 10 are red, and of the 15 imported cars, 5 are red. A car is chosen at random. Given that the car is red, the probability that it is imported is

- **A** $\frac{1}{8}$
- **B** $\frac{3}{8}$
- **C** $\frac{1}{4}$
- **D** $\frac{1}{3}$

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10 **Two standard dice are rolled. The probability that the sum is less than 5 , to the nearest hundredth, is _____**

ANSWER

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ANSWER KEY

1.	A	**5.**	C	**9.**	D
2.	D	**6.**	B	**10.**	0.17
3.	A	**7.**	4.5		
4.	0.14	**8.**	B		

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