ALASKA ALGEBRA II · 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 **For a score of 70 in a distribution with mean 60 and standard deviation 5, the z-score is**

- A 10
- B 5
- C 1
- D 2

Understand It with Pulse | Flag a mistake

2 The probability of rolling a prime number on a fair six-sided die is

- **A** $\frac{1}{2}$
- **B** $\frac{1}{6}$
- **C** $\frac{1}{3}$
- **D** $\frac{2}{3}$

Understand It with Pulse | Flag a mistake

3 The probability of drawing a black card from a standard 52-card deck is

- **A** $\frac{1}{4}$
- **B** $\frac{1}{2}$
- **C** $\frac{1}{13}$
- **D** $\frac{3}{4}$

Understand It with Pulse | Flag a mistake

4 The number of combinations of 2 students chosen from 9 is

- A 18
- B 36
- C 72
- D 81

Understand It with Pulse | Flag a mistake

5 The number of permutations of 2 letters chosen from 9, in order, is

- A 18
- B 36
- C 72
- D 81

Understand It with Pulse | Flag a mistake

6 The probability of exactly 3 heads in 4 fair coin flips is

- **A** $\frac{1}{16}$
- **B** $\frac{1}{2}$
- **C** $\frac{3}{4}$
- **D** $\frac{1}{4}$

Understand It with Pulse | Flag a mistake

7 A regression line is y = 3x - 4. The predicted value of y when x = 5 is

- **A** 19
- **B** 11
- **C** 7
- **D** 15

Understand It with Pulse | Flag a mistake

8 **A game pays 12 dollars with probability $\frac{1}{3}$ and 0 dollars otherwise. The expected value, in dollars, is**

- A 12
- B 6
- C 4
- D 3

Understand It with Pulse | Flag a mistake

9 **A survey of every student in a school is an example of a**

- A random sample
- B biased sample
- C census
- D experiment

Understand It with Pulse | Flag a mistake

10 **In a group of 50 students, 18 take art and 22 take music, with 6 taking both. The number who take neither subject is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**5.**	C	**9.**	C
2.	A	**6.**	D	**10.**	16
3.	B	**7.**	B		
4.	B	**8.**	C		

© 2026 Brett Robbins. All Rights Reserved.