CALIFORNIA STATISTICS · UNIT 3 · 10 QUESTIONS

Statistical Inference — 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 **Quadrupling sample size roughly halves the standard error because it divides by**

- A $\sqrt{n}$
- B $2n$
- C n^2
- D n

Understand It with Pulse | Flag a mistake

2 **A sample mean is 70 with margin of error 6. The interval is**

- A (64, 70)
- B (70, 76)
- C (64, 76)
- D (58, 82)

Understand It with Pulse | Flag a mistake

3 For $\bar{x} = 48$, $\mu_0 = 50$, standard error 2, the z statistic is

- **A** 2
- **B** 1
- **C** -1
- **D** -2

Understand It with Pulse | Flag a mistake

4 A 90% interval is (0.20, 0.40). The margin of error is

ANSWER _____

Understand It with Pulse | Flag a mistake

5 The standard error for $\sigma = 16$, $n = 64$, is

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sample proportion is 0.30 with margin of error 0.04. The upper end of the interval is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **For $\bar{x} = 90$, $\mu_0 = 80$, standard error 5, the z statistic is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Failing to reject the null does not prove the null is**

A true

B tested

C false

D biased

Understand It with Pulse | Flag a mistake

9 **A confidence interval estimates a**

A population parameter

B sample size

C sample statistic exactly

D p-value

Understand It with Pulse | Flag a mistake

10 **The alternative hypothesis usually states the effect the researcher is testing for, such as**

A no data

B no sample

C no difference

D a difference

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. C
3. C
4. 0.1
5. 2
6. 0.34
7. 2
8. A
9. A
10. D

© 2026 Brett Robbins. All Rights Reserved.