

LEARN BY DOING: Calculate the Test Statistic for a Test for a Population Mean

Normal body temperature for healthy, at-rest human beings has always been said to be 98.6°F.

A doctor has seen a lot of patients who had a lower or higher body temperature when they were not ill.

So, he collected 50 randomly selected temperatures that had a mean of 98.4°F with a standard deviation of 0.35°F and wants to test the hypotheses.

- $H_0: \mu = 98.6$
- $H_a: \mu \neq 98.6$

Calculate the test statistic for this sample.

SELECT (A) -0.34

SELECT (B) -0.57

SELECT (C) -2.39

SELECT (D) -4.04

SELECT (E) 4.04