

Question-3 -> A car company believes that the percentage of citizens in city ABC that owns a vehicle is 60% or less. A Sales manager das disagrees with this. He conducted a hypothesis testing 250 residents & found that 170 residents responded yes to owning a vehicle.

a) State the null & Alternate Hypothesis
b) At a 10% significance level, is there enough evidence to support the idea that vehicle owner in ABC city is 60% or less.

Answer > Z-test with proposition

a Null Hypotheric (Ho) => Po <= 60%.

Alternate Hypothesis (H,) = Po > 60%.

 $rac{1}{2} = \frac{170}{250} = 0.68$

7 = P-10 0.68 - 0.6 = 2.58 0.6×0.4/250 1800/

One failed Test

