

Suppose it is reasonable to assume that the 65 boxes purchased by the students are a random sample of all boxes of this cereal. Based on this sample, is there support for the students' belief that the proportion of boxes with vouchers is less than 0.2? Provide statistical evidence to support your answer.

$H_0: p = 0.2$
 $H_a: p < 0.2$

Assume significance level $\alpha = 0.05$

Sample

$n = 65$
 $\hat{p} = \frac{11}{65} \approx 0.169$

P-value $> \alpha$
 $0.266 > 0.05$

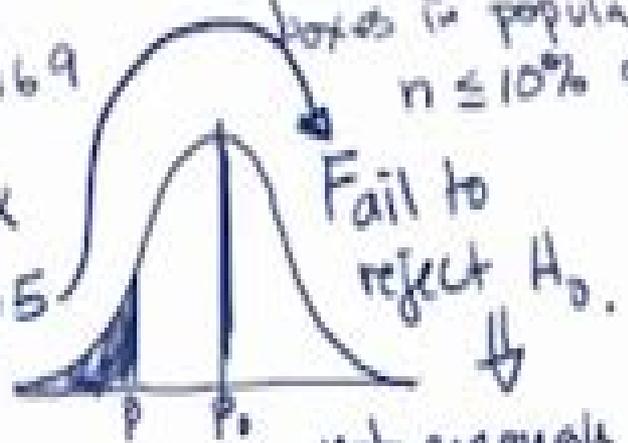
Conditions for Inference

✓ Random - stated in problem that Random Sample taken $\mu_p = P_0$

✓ Normal - $np_0 \geq 10 + n(1-p_0) \geq 10$

$65 \cdot 0.2 = 13$ $65 \cdot 0.8 = 52$
 $13 \geq 10 \checkmark$ $52 \geq 10 \checkmark$

✓ Independence: Going to assume more than 650 boxes in population $\Rightarrow n \leq 10\%$ of population



not enough evidence to suggest H_a

Sampling Dist of \hat{p}

$\sigma_{\hat{p}} = \sqrt{\frac{P_0(1-P_0)}{n}}$

$= \sqrt{\frac{0.2 \cdot 0.8}{65}}$
 ≈ 0.0496

Z-value

$Z = \frac{\hat{p} - P_0}{\sigma_{\hat{p}}} = \frac{0.169 - 0.2}{0.0496}$

P-value = $P(\hat{p} \leq 0.169 | H_0 \text{ true})$
 $= P(Z \leq -0.625) \approx \boxed{0.266}$

Statistics Problems Of Modern Life

S Ben Porath



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