

Feb 19-8:47 AM

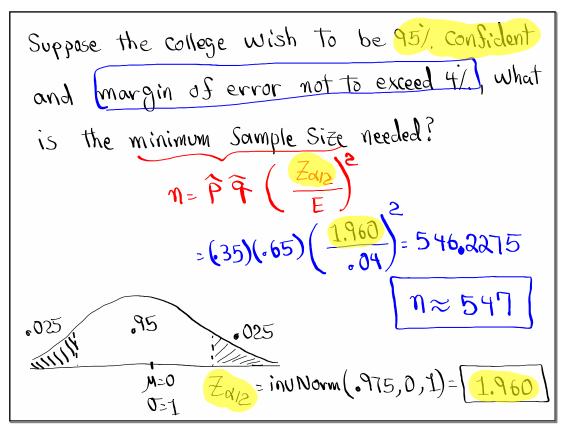
The college randomly selected 240 students and
84 of them were on financial Aid.
$$n=240$$

 $x=54$
1) what proportion of these students are on financial
Aid? $p = \frac{x}{n} = \frac{84}{a40} = .35$ $q = 1-p$
 $= .65$
2) find $p = 0$. Covis. interval for the proportion of
all students that are on financial aid.
C-level: $q = 1-p$
 $= .65$
3) find the margin of ervor.
 $E = \frac{.401 - .299}{2} = \frac{.102}{2} = .051 \approx 5$,
 $p = \frac{.401 + .299}{2} = \frac{.7}{2} = .35 = 35$,

Minimum Sample Size needed to construct
Cons. interval for population proportion:

$$E = Z_{\alpha_{12}} \cdot \sqrt{\frac{\widehat{P} \widehat{P}}{n}} \quad with \\ Some \\ Algebra \quad If decimal, \\ Always round-up \\ If \widehat{P} and \widehat{P} are unknown, then we use .5 \\ for them, and $M = .25 \left(\frac{Z_{\alpha_{12}}}{E}\right)^{2}$$$

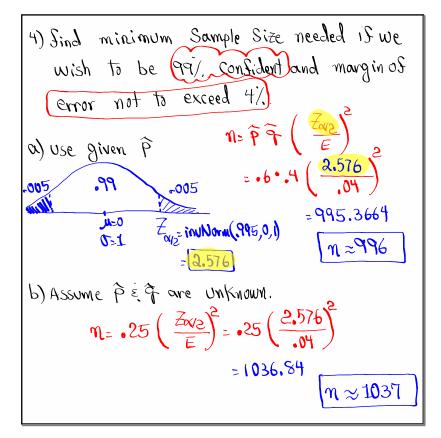
May 2-7:27 AM

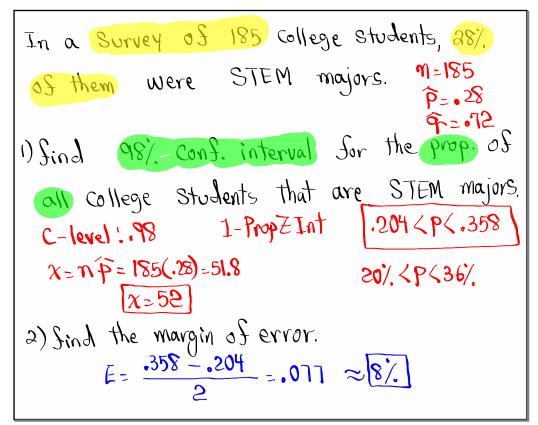


May 2-7:32 AM

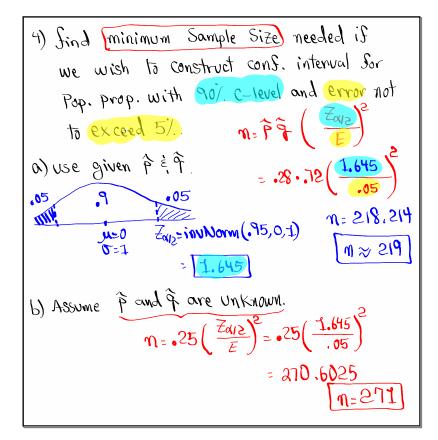
60% - 05 352 College Students randomly selected n = 352had a part-time job. P=.6 ->9=.4 1) How many of these students had a part-time $\chi = \pi \hat{P}$ $\chi_{=352}(.6) = 211.2$ JOP 5 if decemal, Round-UP X=212 2) find cons. interval for the porportion of all College students that have part-time job. 1-PropZInt .551KP<,653 -NO C-level => Use .95 55/<P< 65% 3) find the margin of error. $E = \frac{.653 - .551}{2} = .051 \approx 5/.$ $\hat{p}_{=} \frac{.653 + .551}{2} = .602 \approx 60'$

May 2-7:38 AM

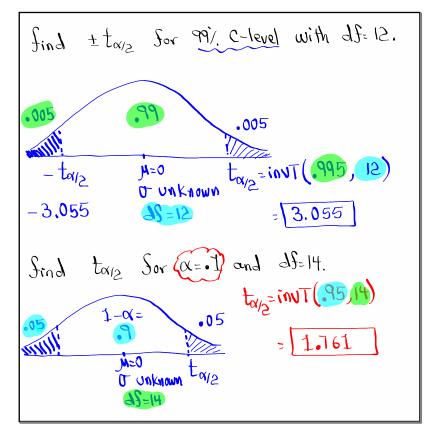




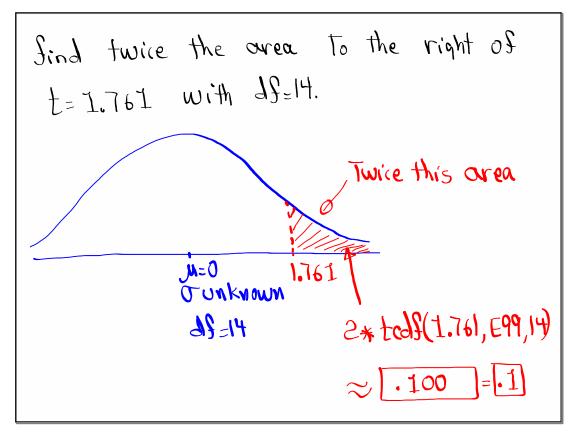
May 2-7:55 AM



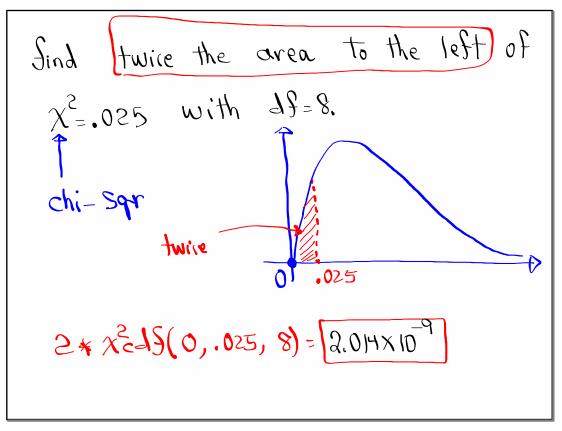
May 2, 2023



May 2-8:11 AM



May 2-8:17 AM



May 2-8:20 AM

