

of A company has look employee, among a sample of 500 people 300 people ordered large of 200 people ordered XL. How many people want large of XL in the whole company or how many L&XL must be ordered for whole company? Suppose $\hat{p} = \frac{300}{500} = \frac{3}{5}$ (proportion of people who ordered large) 95% confidence enterval = $\hat{P} \pm Z_{\text{critical}} = \frac{\hat{P}(1-\hat{P})}{n}$ $= \frac{3}{5} \pm 1.96 \sqrt{\frac{34 \cdot 245}{500}}$ = 0.6 ± 1.96 × 0.0219 = 0.6 ± 0.0429 = (0.6429, 0.5571)