

CONFIDENCE INTERVALS (MON 23) 3-27-19

• MARGIN OF ERROR

↳ MEASURES THE ERROR OR HOW FAR OFF FROM THE TRUE PROPORTION (P) WE THINK WE ARE.

* 95% CONFIDENCE INTERVAL (STANDARD)

$$- \hat{p} \pm E \quad E = \text{MARGIN OF ERROR}$$

$$\text{WHERE } \Rightarrow E = z \sqrt{\frac{p(1-p)}{n}}$$
$$\hat{p} \pm z \sqrt{\frac{p(1-p)}{n}}$$