

672 electores | 250 favor del partido A | intervalo de confianza 92%.

①

$$n = 672$$

$$x_1 = 250$$

$$\alpha = 92\%$$

$$\bar{p} = \frac{x}{n} = \frac{250}{672} = 0.372$$

② Valor z

$$z = \frac{\alpha}{2} = \frac{0.92}{2} = 1.76$$

③ FORMULA

$$IC = \bar{p} \pm z \sqrt{\frac{p(1-p)}{n}}$$

④ DESGLOSE

$$\left[\bar{p} - z \sqrt{\frac{p(1-p)}{n}} ; \bar{p} + z \sqrt{\frac{p(1-p)}{n}} \right]$$

$$\left[0.372 - 1.76 \sqrt{\frac{0.372(1-0.372)}{672}} ; 0.372 + 1.76 \sqrt{\frac{0.372(1-0.372)}{672}} \right]$$

$$\left[0.372 - 1.76 \sqrt{\frac{0.372(0.628)}{672}} ; 0.372 + 1.76 \sqrt{\frac{0.372(0.628)}{672}} \right]$$

$$\left[0.372 - 1.76 \sqrt{0.233} ; 0.372 + 1.76 \sqrt{0.233} \right]$$

$$0.372 - 1.76 \sqrt{0.00034673} ; 0.372 + 1.76 \sqrt{0.00034673}$$

$$0.372 - 1.76(0.01862) ; 0.372 + 1.76(0.01862)$$

$$0.372 - 0.03277 ; 0.372 + 0.03277$$

$$\left[0.33923 \right] \left[0.40477 \right]$$

$$(33.9) \quad (40.4)$$

Proporción

92%

672 electores, 250 a favor del partido "A" intervalo de confianza 88%

① Datos

$$n = 672$$

$$x_i = 250$$

$$\alpha = 88\%$$

$$\bar{p} = \frac{x}{n} = \frac{250}{672} = 0.372$$

$$\times 100$$

$$37.2$$

② Valor Z

$$Z = \frac{\alpha}{2} = \frac{0.88}{2} = 1.56$$

③ Fórmula $IC = \bar{p} \pm 2 \sqrt{\frac{p(1-p)}{n}}$

④ Desglose

$$\left[\bar{p} - Z \sqrt{\frac{p(1-p)}{n}} ; \bar{p} + Z \sqrt{\frac{p(1-p)}{n}} \right]$$

$$\left[0.372 - 1.56 \sqrt{\frac{0.372(1-0.372)}{672}} ; 0.372 + 1.56 \sqrt{\frac{0.372(1-0.372)}{672}} \right]$$

$$\left[0.372 - 1.56 \sqrt{\frac{0.372(0.628)}{672}} ; 0.372 + 1.56 \sqrt{\frac{0.372(0.628)}{672}} \right]$$

$$\left[0.372 - 1.56 \sqrt{0.2336} ; 0.372 + 1.56 \sqrt{0.2336} \right]$$

$$0.372 - 1.56 \sqrt{0.00034454} ; 0.372 + 1.56 \sqrt{0.00034454}$$

$$0.372 - 1.56(0.01856) ; 0.372 + 1.56(0.01856)$$

$$0.372 - 0.02891 ; 0.372 + 0.02891$$

$$0.3431 ; 0.4009$$

$$34\% \quad 40\%$$