

$$\hat{p} = \frac{30}{200} = 0'15 \quad \text{PROPORCIÓN DE ALUMNOS QUE REPITEN}$$

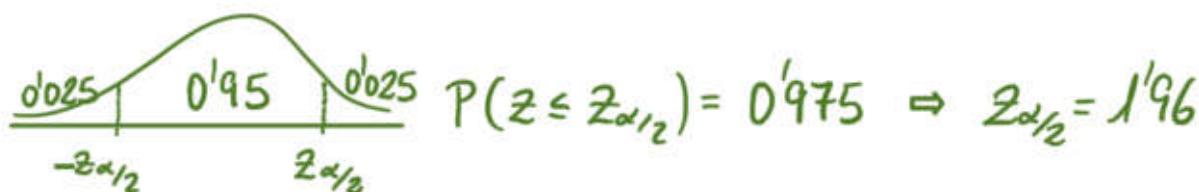
$$\hat{q} = 1 - \hat{p} = 0'85$$

$$n = 200$$

$$\begin{aligned} \text{a) I.C.}_{95\%} &= \left(\hat{q} \pm z_{\alpha/2} \sqrt{\frac{\hat{q} \cdot \hat{p}}{n}} \right) = \\ &= \left(0'85 \pm 1'96 \sqrt{\frac{0'85 \cdot 0'15}{200}} \right) = (0'8005, 0'8995) \end{aligned}$$

INTERVALO DE CONFIANZA

CALCULAR $z_{\alpha/2}$ PARA UN N.C. = 95%



$$\text{b) } E = z_{\alpha/2} \sqrt{\frac{\hat{p} \cdot \hat{q}}{n}} \Rightarrow 0'025 = 1'645 \sqrt{\frac{0'15 \cdot 0'85}{n}}$$

2'5%

$$n = \frac{0'15 \cdot 0'85}{\left(\frac{0'025}{1'645}\right)^2} = 552'03$$

$$n \geq 553$$

TAMBIÉN MÍNIMO MUESTRAL

CALCULAR $z_{\alpha/2}$ PARA UN N.C. = 90%

