

$X = \text{Kg DE RESIDUOS NO MINERALES QUE GENERA CADA ESPAÑOL AL AÑO.}$

$$n = 100 \quad \text{I.C.} = (1470'6; 1529'4) \quad \sigma = 150$$

$$a) \bar{x} = \frac{1470'6 + 1529'4}{2} = 1500 \text{ Kg } \underline{\text{MEDIA MUESTRAL}}$$

$$b) E = z_{\alpha/2} \frac{\sigma}{\sqrt{n}} \rightarrow 29'4 = z_{\alpha/2} \frac{150}{\sqrt{100}}$$

$$z_{\alpha/2} = 1'96$$



$$P(Z \leq z_{\alpha/2}) = 0'975 \quad \text{red } 1 - 0'975$$

$$\text{N.C.} = 1 - \alpha = 1 - 2 \cdot 0'025 = 0'95$$

NIVEL DE CONFIANZA = 95%

$$c) \text{I.C.}_{90\%} = \left(1500 \pm 1'645 \frac{150}{\sqrt{100}} \right) = (1475'33, 1524'68)$$

INTERVALO DE CONFIANZA

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

