UDS
UNIVERSIDAD DEL SURESTE

Crea tu mejor historia
EMPRENDAMOS JUNTOS

MATERIA:

ESTADISTICA INFERENCIAL

LICENCIATURA EN PSICOLOGIA

DOCENTE:

LIC. MAGNER JOEL HERRERA

ACTIVIDAD:

POBLACION INFINITA Y POBLACION FINITA

PRESENTA:

LEONEL LOPEZ MORALES

“4: CUATRIMESTRE

GRUPO: A

FRONTERA COMALAPA, CHIAPAS: 06/12/2020

Formula: $n = (z)^2 * P * Q$

Datos:

$z = 95\% = 1.96$

$\epsilon = 5\% = 0.05$

$P = 2\% = 0.02$

$Q = 1 - P = 1 - 0.02 = 0.98$

$$n = \frac{(1.96)^2 * 0.02 * 0.98}{(0.05)^2}$$

$$n = \frac{3.8416 * 0.02 * 0.98}{0.0025}$$

$$n = \frac{0.07752}{0.0025} = 30.08 = 30$$

Datos:

$Z = 99\% = 2.575$

$\epsilon = 11\% = 0.11$

$P = 0.5$

$Q = 1 - P = 1 - 0.5 = 0.5$

$$n = \frac{(2.575)^2 * 0.5 * 0.5}{(0.0112}$$

$$n = \frac{6.6306 * 0.5 * 0.5}{0.0121}$$

$$n = \frac{1.6576}{0.0121} = 136.99 = 137 \text{ //}$$

FORMULA: $n = \frac{N * (Z)^2 * P * Q}{(N-1) * (E)^2 + (Z)^2 * P * Q}$

DATOS

$N = 1.346$
$Z = 97\% = 2.17$
$E = 85\% = 0.085$
$P = 31\% = .031$
$Q = 1 - P = 1 - 031 = 0.69$

$$n = \frac{1,340 * (2.17)^2 * 0.31 * 0.69}{(1.340 - 1) * (0.085)^2 + (2.17)^2 * 031 * 0.69}$$

$$n = \frac{1,340 * 4.7089 * 0.31 * 0.69}{1,339 * 0.0072 + 4.7089 * 0.31 * 0.69}$$

$$n = \frac{1349.6931}{9.6408 + 1.0072}$$

$$n = \frac{1,349.6931}{10.1648} = 126.7555 = \underline{127} //$$

Datos

$N = 2,720$

$Z = 96\% = 2.05$

$e = 4\% = 0.04$

$P = 58\% = 0.58$

$Q = 1 - P = 1 - 0.58 = 0.42$

$$n = \frac{2.720 * (2.05)^2 * 0.58 * 0.42}{(2.720 - 1) * (0.04)^2 + 2.05)^2 * 0.58 * 0.42}$$

$$n = \frac{2,720 * 4.2025 * 0.58 * 0.42}{2,719 * 0.0016 + 4.2025 * 0.58 * 0.42}$$

$$n = \frac{2,784.5428}{4.3504 + 1.0237}$$

$$n = \frac{2.784.5428}{5.3741} = 518.1412 = 518$$