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Nombre del trabajo: U2. T1

Materia: Estadística inferencial

Grado: 4to cuatrimestre.

Grupo: A

Comitán de Domínguez Chiapas a 15 de octubre de 2022

$$N = 5000$$

$$P = 50\% = 0.5$$

$$q = 1 - P = 1 - 0.5 = 0.5$$

$$B = 4\% = 0.04$$

$$n = 556$$

$$D = \frac{B^2}{M} = \frac{(0.04)^2}{M} = 0.0004$$

$$n = \frac{NPq}{(N-1)D + Pq}$$

$$n = \frac{5000(0.5)(0.5)}{(4999)0.0004 + 0.5(0.5)}$$

$$n = \frac{1250}{1.9996 + 0.25}$$

$$n = \frac{1250}{2.2496}$$

$$n = 555.65$$

$$n = 556$$

~~04-October 2022~~
~~x 1000~~

$$N = 6500$$

$$P = 72\% = 0.72$$

$$q = 1 - P = 1 - 0.72 = 0.28$$

$$B = 5\% = 0.05$$

$$n = 308$$

$$D = \frac{B^2}{M} = \frac{(0.05)^2}{M} = 0.000625$$

$$n = \frac{NPq}{(N-1)D + Pq} = \frac{6500(0.72)(0.28)}{(6500-1)0.000625 + 0.72(0.28)}$$

$$n = \frac{1310.4}{4.263475} = 307.35$$

$$N = 7000$$

$$P = 52\% = 0.52$$

$$q = 1 - P = 0.48$$

$$B = 2\% = 0.02$$

$$n = 1846$$

$$D = \frac{(0.02)^2}{M} = 0.0001$$

$$n = \frac{7000(0.52)(0.48)}{6999(0.0001) + 0.52(0.48)} = \frac{1747.2}{0.9495}$$

$$N = 6300$$

$$D = \frac{(0.01)^2}{M} = 0.000025$$

$$P = 55\% = 0.55$$

$$q = 0.45$$

$$B = 1\% = 0.01$$

$$n = \frac{6300(0.55)(0.45)}{6299(0.000025) + 0.55(0.45)} = \frac{1559.25}{0.404975}$$

$$N = 3850$$