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Nombre del trabajo: Muestreo

**Materia: Estadística inferencial en
nutrición**

Grado: 4°A

Grupo: LNU

$$\textcircled{1} N = 18000$$

$$P_1 = 65.7 = 0.657$$

$$q_1 = 1 - 0.657 = 0.343$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

$$D = \frac{(0.02)^2}{4} = 0.0001$$

$$n = \frac{(18000)(0.657)(0.343)}{(17999)(0.0001) + (0.657)(0.343)}$$

$$n_1 = 2003$$

$$N = 18000$$

$$P_2 = 1 - 0.77 = 0.23$$

$$q_2 = 0.77$$

$$B_2 = 4\% = 0.04$$

$$D = \frac{(0.04)^2}{4} = 0.0004$$

$$n = \frac{(18000)(0.77)(0.23)}{(17999)(0.0004) + (0.77)(0.23)}$$

$$n_2 = 433$$

$$\textcircled{2} N = 55000$$

$$P_1 = 55.8\% = 0.558$$

$$q_1 = 1 - 0.558 = 0.442$$

$$B_1 = 2\% = 0.02$$

$$D = \frac{(0.02)^2}{4} = 0.0001$$

$$n = \frac{(55000)(0.558)(0.442)}{(54999)(0.0001) + (0.558)(0.442)}$$

$$n_1 = 2361$$

$$N = 55000$$

$$P_2 = 62.5\% = 0.625$$

$$q_2 = 1 - 0.625 = 0.375$$

$$B_2 = 3\% = 0.03$$

$$D = \frac{(0.03)^2}{4} = 0.000225$$

$$n = \frac{(55000)(0.625)(0.375)}{(54999)(0.000225) + (0.625)(0.375)}$$

$$n_2 = 1023$$

$$\textcircled{3} N = 50000$$

$$P_1 = 56.7\% = 0.567$$

$$q_1 = 1 - 0.567 = 0.433$$

$$B_1 = 2\% = 0.02$$

$$D = \frac{(0.02)^2}{4} = 0.0001$$

$$n = \frac{(50000)(0.567)(0.433)}{(49999)(0.0001) + (0.567)(0.433)}$$

$$n_1 = 2341$$

$$N = 50000$$

$$P_2 = 50\% = 0.5$$

$$q_2 = 1 - 0.5 = 0.5$$

$$B_2 = 4\% = 0.04$$

$$D = \frac{(0.04)^2}{4} = 0.0004$$

$$n = \frac{(50000)(0.5)(0.5)}{(49999)(0.0004) + (0.5)(0.5)}$$

$$n_2 = 618$$

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$$\begin{aligned} 4) \quad N &= 35200 \\ p_1 &= 72.5\% = 0.725 \\ q_1 &= 1 - 0.725 = 0.275 \\ B_1 &= 2\% = 0.02 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.02)^2}{4} = 0.0001 \\ n &= \frac{(35200)(0.725)(0.275)}{(35199)(0.0001) + (0.725)(0.275)} \quad n_1 = 1887 \end{aligned}$$

$$\begin{aligned} N &= 35200 \\ p_2 &= 56\% = 0.5 \\ q_2 &= 1 - 0.5 = 0.5 \\ B_2 &= 1\% = 0.01 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.01)^2}{4} = 0.000025 \\ n &= \frac{(35200)(0.5)(0.5)}{(35199)(0.000025) + (0.5)(0.5)} \quad n_2 = 7788 \end{aligned}$$

$$\begin{aligned} 5) \quad N &= 58000 \\ p_1 &= 50\% = 0.5 \\ q_1 &= 1 - 0.5 = 0.5 \\ B_1 &= 5\% = 0.05 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.05)^2}{4} = 0.000625 \\ n &= \frac{(58000)(0.5)(0.5)}{(57999)(0.000625) + (0.5)(0.5)} \quad n_1 = 398 \end{aligned}$$

$$\begin{aligned} N &= 58000 \\ p_2 &= 74\% = 0.74 \\ q_2 &= 1 - 0.74 = 0.26 \\ B_2 &= 2\% = 0.02 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.02)^2}{4} = 0.0001 \\ n &= \frac{(58000)(0.74)(0.26)}{(57999)(0.0001) + (0.74)(0.26)} \quad n_2 = 1863 \end{aligned}$$

$$\begin{aligned} 6) \quad N &= 17600 \\ p_1 &= 65.7\% = 0.657 \\ q_1 &= 1 - 0.657 = 0.343 \\ B_1 &= 2\% = 0.02 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.02)^2}{4} = 0.0001 \\ n &= \frac{(17600)(0.657)(0.343)}{(16999)(0.0001) + (0.657)(0.343)} \quad n_1 = 1990 \end{aligned}$$

$$\begin{aligned} N &= 170000 \\ p_2 &= 77\% = 0.77 \\ q_2 &= 1 - 0.77 = 0.23 \\ B_2 &= 4\% = 0.04 \end{aligned}$$

$$\begin{aligned} D &= \frac{(0.04)^2}{4} = 0.0004 \\ n &= \frac{(17000)(0.77)(0.23)}{(16999)(0.0004) + (0.77)(0.23)} \quad n_2 = 432 \end{aligned}$$

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