

**Nombre de alumno: Ayla Ebed Zacarías
Bartolón**

**Nombre del profesor: Jorge Enrique
Albores Aguilar**

Nombre del trabajo: Muestreo

**Materia: Estadística inferencial en
nutrición**

Grado: 4° cuatrimestre

Grupo: "A"

Ejercicios

<p>N=18000 P1=65.7% q1= B1=2% n1= p2=77% q2= B2=4% n2=</p>	<p>N=55000 P1=55.8% q1= B1=2% n1= p2=62.5% q2= B2=3% n2=</p>
<p>N=50000 P1=56.7% q1= B1=2% n1= p2= q2= B2=4% n2=</p>	<p>N=35200 P1=72.5% q1= B1=2% n1= p2= q2= B2=1% n2=</p>
<p>N=58000 P1= q1= B1=5% n1= p2=74% q2= B2=2% n2=</p>	<p>N=17000 P1=65.7% q1= B1=2% n1= p2=77% q2= B2=4% n2=</p>

Nota si no tiene valor de p entonces toma el valor de 0.5

$$N = 18000$$

$$P_1 = 65.7\% = 0.657$$

$$q_1 = 1 - 0.657 = 0.343 \quad D = \frac{(0.02)^2}{4} = 0.0001$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

$$n = \frac{(18000)(0.657)(0.343)}{(17999)(0.0001) + (0.657)(0.343)} = \underline{2003}$$

$$P_2 = 77\% = 0.77$$

$$q_2 = 1 - 0.77 = 0.23$$

$$B_2 = 4\% = 0.04$$

$$n_2 =$$

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

$$n = \frac{(18000)(0.77)(0.23)}{(17999)(0.0004) + (0.77)(0.23)} = \underline{483}$$

$$N = 55000$$

$$P_1 = 55.8\% = 0.558$$

$$q_1 = 1 - 0.558 = 0.442$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

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

$$n = \frac{(55000)(0.558)(0.442)}{(54999)(0.0001) + (0.558)(0.442)} = \underline{5341}$$

$$P_2 = 62.5\% = 0.625$$

$$q_2 = 1 - 0.625 = 0.375$$

$$B_2 = 3\% = 0.03$$

$$n_2 =$$

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

$$n = \frac{(55000)(0.625)(0.375)}{(54999)(0.000225) + (0.625)(0.375)} = \underline{1023}$$

$$N = 50000$$

$$P_1 = 56.7\% = 0.567$$

$$q_1 = 1 - 0.567 = 0.433$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

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

$$n = \frac{(50000)(0.567)(0.433)}{(49999)(0.0001) + (0.567)(0.433)} = \underline{2341}$$

$$P_2 = 50\% = 0.5$$

$$q_2 = 1 - 0.5 = 0.5$$

$$B_2 = 4\% = 0.04$$

$$n_2 =$$

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

$$n = \frac{(50000)(0.5)(0.5)}{(49999)(0.0004) + (0.5)(0.5)} = \underline{618}$$

$$N = 58000$$

$$P_1 = 50\% = 0.5$$

$$q_1 = 1 - 0.5 = 0.5$$

$$B_1 = 5\% = 0.05$$

$$n_1 =$$

$$D = \frac{(0.05)^2}{4} = 0.000625$$

$$n = \frac{(58000)(0.5)(0.5)}{(57999)(0.000625) + (0.5)(0.5)} = \underline{398}$$

$$P_2 = 74\% = 0.74$$

$$q_2 = 1 - 0.74 = 0.26$$

$$B_2 = 2\% = 0.02$$

$$n_2 =$$

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

$$n = \frac{(58000)(0.74)(0.26)}{(57999)(0.0001) + (0.74)(0.26)} = \underline{1863}$$

$$N = 35200$$

$$P_1 = 72.5\% = 0.725$$

$$q_1 = 1 - 0.725 = 0.275$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

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

$$n = \frac{(35200)(0.725)(0.275)}{(35199)(0.0001) + (0.725)(0.275)} = \underline{1887}$$

$$P_2 = 50\% = 0.5$$

$$q_2 = 1 - 0.5 = 0.5$$

$$B_2 = 1\% = 0.01$$

$$n_2 =$$

$$D = \frac{(0.01)^2}{4} = 0.00025$$

$$n = \frac{(35200)(0.5)(0.5)}{(35199)(0.00025) + (0.5)(0.5)} = \underline{7188}$$

$$N = 17000$$

$$P_1 = 65.7 = 0.657$$

$$q_1 = 1 - 0.657 = 0.343$$

$$B_1 = 2\% = 0.02$$

$$n_1 =$$

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

$$n = \frac{(17000)(0.657)(0.343)}{(16999)(0.0001) + (0.657)(0.343)} = \underline{1490}$$

$$N = 17000$$

$$P_2 = 77\% = 0.77$$

$$q_2 = 1 - 0.77 = 0.23$$

$$B_2 = 4\% = 0.04$$

$$n_2 =$$

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

$$n = \frac{(17000)(0.77)(0.23)}{(16999)(0.0004) + (0.77)(0.23)} = \underline{482}$$