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**Materia: Estadística Inferencial**

**Grado: 4°**

**Grupo: LPS19EMC0120-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

Roxana de los Angeles Gutiérrez Méndez 4=

$$N = 18000$$

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

$$P_1 = 65.7\% = 0.657$$

$$q_1 = 1 - p = 0.343$$

$$n = \frac{(18000)(0.657)(0.343)}{(17,999)(0.0001) + (0.657)(0.343)} = 2,003$$

$$B_1 = 2\%$$

$$(17,999)(0.0001) + (0.657)(0.343)$$

$$n_1 = 2,003$$

$$P_2 = 77\% = 0.77 \quad D = \frac{(0.04)^2}{4} = 0.0004$$

$$q_2 = 1 - p = 0.23$$

$$B_2 = 4\%$$

$$n = \frac{(18000)(0.77)(0.23)}{(17,999)(0.0004) + (0.77)(0.23)} = 433$$

$$n_2 = 433$$

$$N = 55000$$

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

$$P_1 = 55.8\% = 0.558$$

$$q_1 = 1 - p = 0.442$$

$$n = \frac{(55000)(0.558)(0.442)}{(54,999)(0.0001) + (0.558)(0.442)} = 2,361$$

$$B_1 = 2\%$$

$$n_1 = 2,361$$

$$P_2 = 62.5\%$$

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

$$q_2$$

$$B_2 = 3\%$$

$$n = \frac{(55000)(0.625)(0.375)}{(54,999)(0.000225) + (0.625)(0.375)} = 1023$$

$$n_2 = 1023$$

$$N = 50000$$

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

$$P_1 = 56.7\% = 0.567$$

$$q_1 = 1 - p = 0.433$$

$$n = \frac{(50000)(0.567)(0.433)}{(49,999)(0.0001) + (0.567)(0.433)} = 2,341$$

$$B_1 = 2\%$$

$$n_1 = 2,341$$

$$P_2 = 50\% = 0.5$$

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

$$q_2 = 1 - p = 0.5$$

$$B_2 = 4\%$$

$$n = \frac{(50000)(0.5)(0.5)}{(49,999)(0.0004) + (0.5)(0.5)} = 618$$

$$n_2 = 618$$

Roxana de los Angeles Gutiérrez Méndez 4°

$$N = 35200$$

$$p_1 = 72.5\% = 0.725$$

$$q_1 = 1 - p_1 = 0.275$$

$$B_1 = 2\%$$

$$n_1 = 1887$$

$$p_2 = 50\% = 0.5$$

$$q_2 = 1 - p_2 = 0.5$$

$$B_2 = 1\%$$

$$n_2 = 7788$$

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

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

$$D = \frac{(0.01)^2}{4} = 0.000025$$

$$n = \frac{(35200)(0.5)(0.5)}{(35199)(0.000025) + (0.5)(0.5)} = 7788$$

$$N = 58000$$

$$p_1 = 50\% = 0.5$$

$$q_1 = 50\% = 0.5$$

$$B_1 = 5\%$$

$$n_1 = 398$$

$$p_2 = 74\% = 0.74$$

$$q_2 = 1 - p_2 = 0.26$$

$$B_2 = 2\%$$

$$n_2 = 1863$$

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

$$n = \frac{(58000)(0.5)(0.5)}{(57,999)(0.000625) + (0.5)(0.5)} = 398$$

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

$$n = \frac{58000(0.74)(0.26)}{(57,999)(0.0001) + (0.74)(0.26)} = 1863$$

$$N = 17000$$

$$p_1 = 65.7\% = 0.657$$

$$q_1 = 1 - p_1 = 0.343$$

$$B_1 = 2\%$$

$$n_1 = 1990$$

$$p_2 = 77\% = 0.77$$

$$q_2 = 1 - p_2 = 0.23$$

$$B_2 = 4\%$$

$$n_2 = 432$$

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

$$n = \frac{(17000)(0.657)(0.343)}{(16,999)(0.0001) + (0.657)(0.343)} = 1990$$

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

$$n = \frac{(17000)(0.77)(0.23)}{(16,999)(0.0004) + (0.77)(0.23)} = 432$$