



Actividad 2

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Tema: ejercicio

Parcial: 1 **Materia:** Estadística

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Licenciatura: Psicología

Lugar y Fecha: Frontera Comalapa
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Ejercicio 1

$$n = \frac{z^2 P(1-P)}{e^2}$$

$P = 0.5$
 $e = 7\% = 0.07$
 $z = 90\% = 1.645$
 $1-P = 1 - 0.5 = 0.5$

$$n = \frac{(1.645)^2 (0.5)(0.5)}{(0.07)^2}$$

$$n = \frac{0.6765}{0.0049} = 138.06 = 138$$

②

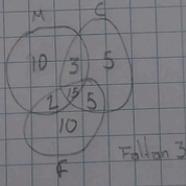
$$n = N \frac{z^2 P(1-P)}{(N-1)e^2 + z^2 P(1-P)}$$

$N = 500$
 $z = 60\% = 1.96$
 $P = 95\% = 0.95$
 $e = 5\% = 0.05$
 $1-P = 1 - 0.95 = 0.05$

$$n = \frac{500(0.05)^2 (1.96)(0.95)}{(500-1)(0.05)^2 + (1.96)^2 (0.95)(0.05)}$$

$$n = \frac{538.688}{1.9248} = 279.87 = 279$$

③



- a = 3
- b = 10
- c = 25
- d = 22
- e = 28
- f = 10
- g = 20

④

$$P(A/A) = \frac{94}{194} = 0.432$$