

Formula 1:

$$n_0 = \frac{z^2 pq}{e^2}$$

Formula 2:

$$n_0 = \frac{(1.96)^2 0.5(1-0.5)}{(0.05)^2} = \frac{3.8416 \times 0.5 \times 0.5}{0.0025} = 384$$