

## Simple size calculator

We use Steven K. Thompson equation to calculate the sample size,

From the next formula.

$$n = \frac{N \times P(1-P)}{[N-1 \times (d^2 \div z^2)] + p(1-p)}$$

Where

**n:** sample size(350)

**N:** population size(3900)

**Z:** confidence level at 95%(1.96)

**d:** Error proportion (0.05)

**p:** probability(50%)

Next table shows gender distribution according sample size.

Gender	Male	Female	Total
Total	2500	1400	N=3900
%	64%	36%	100%
Sample size Calculation	224	126	n=390

1) Steven K. Thompson, 2012.Sampling,Third Edition,P:59-60