

### **The sample size**

$$\mathbf{SS} = \frac{\mathbf{Z}^2 * (\mathbf{p}) * (\mathbf{1-p})}{\mathbf{C}^2}$$

where:

$$\mathbf{Z} = 3$$

$$\mathbf{p} = 0.05$$

$$\mathbf{c} = 0.1$$

$$\mathbf{SS} = 9 * (0.05) * (1 - 0.05) / 0.1 = 4.275$$