

## Samples and Surveys Exit Quiz

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### Answer:

Solve the following problems involving sample and Survey.

A researcher wants to find the mean salary of municipal councillors of a province. The number of councilor in the province is about 120.

1. What type of data is needed for research?

**Quantitative**

2. What is the Appropriate method of research?

**Registration Method and Direct Interview** - First ask the provincial register who are these councilor then proceed to direct interview to ask them about their salary. Or directly ask the provincial accounting about their salary.

3. What type of sampling can be use in this research?

**Purposive and Stratified** - Purposive because sepecifically the reasearcher is looking for the municipal councillors, stratified because there are two or more municipality in a province.

4. Calculate the sample size of the population at 3% margin of error.

Solution: 
$$n = \frac{120}{1+120(0.03)^2} = 108.3 \text{ or } 108$$

5. Calculate the sample size of the population at 5% margin of error.

Solution: 
$$n = \frac{120}{1+120(0.05)^2} = 92.3 \text{ or } 92$$