

## POPULATION & SAMPLE. VARIABLE & DATA

1. Cluj County residents prefer to resort to specialized medical services in Cluj-Napoca, thus bypassing the place of residence services. This phenomenon most often affects small cities and can result in settlements for the abolition of health services. To determine why this "emigration" to health services in Cluj-Napoca is intended to initiate a study applying a questionnaire via the telephone network.

Requests:

- a. Identify target population.
- b. Identify the available population.
- c. Identify the characteristics that should be pursued.
- d. For each identified characteristic specifies the type and scale of measurement.

**Solution:**

Target Population: population of Cluj County.

Available population: people who have a subscription to a telephone service.

Tracking feature:

- Respondent age (quantitative continuous - ratio)
- Gender (qualitative – nominal (dichotomial))
- Occupation (qualitative - nominal scale)
- Education (qualitative - nominal scale)
- Health service type (qualitative - ordinal)
- Frequency of these services by calling (discrete metric, ratio if that response options are 1 month, 2 times per month, etc., Qualitative ordinal scale where response options are never, rarely, rarely, often, very often)
- City where is located the service most frequently calling (qualitative - nominal)

2. A teacher wants to assess the accumulation of knowledge of first year medical students at the middle of semester. 100 out of 350 students were selected and their knowledge were assessed.

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| <p>a. Students selected for this study are:</p> <ol style="list-style-type: none"> <li>i. Population</li> <li>ii. Statistics</li> <li>iii. Parameter</li> <li>iv. <u>Sample</u></li> </ol> <p>b. In this study, students' knowledge level determined by the test given is:</p> <ol style="list-style-type: none"> <li>i. Statistics</li> <li>ii. <u>Variable</u></li> <li>iii. Parameter</li> <li>iv. Sample</li> </ol> <p>c. The test scores of students are:</p> <ol style="list-style-type: none"> <li>i. <u>Date</u></li> <li>ii. Sample</li> <li>iii. Statistics</li> <li>iv. Population</li> </ol> | <p>d. The average score achieved by students in the test is:</p> <ol style="list-style-type: none"> <li>i. Parameter</li> <li>ii. <u>Statistic</u></li> <li>iii. Variable</li> <li>iv. Date</li> </ol> <p>e. If you generalize the obtained result, we say that an inference to the:</p> <ol style="list-style-type: none"> <li>i. Date</li> <li>ii. Variables</li> <li>iii. Statistics</li> <li>iv. <u>Population</u></li> </ol> <p>f. The average score obtained by students after the exam represent:</p> <ol style="list-style-type: none"> <li>i. <u>Parameter</u></li> <li>ii. Variable</li> <li>iii. Date</li> <li>iv. Population</li> </ol> |
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