

Homework 1

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Problem 1

(a). Research question

Personality assessment on The Big Five Inventory

(b) Subjects in the study

The subjects of this study are undergraduate students and they volunteered for the assessment

(c) Variables in the study

Gender = Male or Female

Gender is a categorical variable and it is a discrete variable which is also ordinal

Problem 2

(a). Percentage of all videos on YouTube

Population parameter

(b) 2 Per cent

Sample Statistic

(c) Video on the sample

Variable

(d) Cat Video

Observation

Problem 3

(a) Cases

Contraception choices

(b) Response variable

Contraception choices

(c) Explanatory variable

age, race, ethnicity, Zip code

(d) Random sampling

Yes the study applies Random sampling

(e) Whether it is an observational or experimental study

It is an observational study since the researcher observes 28,000 Women

Problem 4

No it is not a good measure of household size. The average might be biased since some student may give false information thus leading to an overestimation of the true value

Problem 5

(a)

Simple Random sampling

(b)

Convenience sampling

(c)

Online survey sampling

(d)

Cluster Sampling