

Exercises:

Q6: For each of the following variables indicate whether it is quantitative or qualitative variable:

- (a) The blood type of some patient in the hospital.
- (b) Blood pressure level of a patient.

(c) Weights of babies born in a hospital during a year. **Quantitative continues**

(d) Gender of babies born in a hospital during a year. **Qualitative nominal**

(e) The distance between the hospital to the house **Quantitative continues**

(f) Under-arm temperature of day-old infants born in a hospital. **Quantitative continues**

Q7: For each of the following situations, answer questions a through d:

(a) What is the population?

(b) What is the sample in the study?

(c) What is the variable of interest?

(d) What is the type of the variable?

Situation A: A study of 300 households in a small southern town revealed that if she has school-age child present.

All households in a small southern town. (a) Population:

300 households in a small southern town. (b) Sample:

(c) Variable: Does households had school age child present.

(d) Variable is qualitative nominal.

- **Situation B:** A study of 250 patients admitted to a hospital during the past year revealed that, Distance the patient live away from the hospital

hospital.

(a) Population: All patients admitted to a hospital during the past year.

(b) Sample: 250 patients admitted to a hospital during the past year.

(c) **Variable:** Distance the patient live away
from the hospital
Variable is Quantitative continuous. (d)

Choose the right answer:

1-The variable is a

- a. subset of the population.
- b. parameter of the population.
- c. relative frequency.
- d. characteristic of the population to be measured.
- e. class interval.

2-Which of the following is an example of discrete variable

- a. the number of students taking statistics in this term at ksu.
- b. the time to exercise daily.
- c. whether or not someone has a disease
- d. height of certain buildings
- e. Level of education

3. Which of the following is not an example of discrete variable

- a. the number of students at the class of statistics.
- b. the number of times a child cry in a certain street.
- c. the time to run a certain distance.
- d. the number of buildings in a certain street.
- e. number of educated persons in a family.

4. Which of the following is an example of qualitative variable

- a. the blood pressure.
- b. the number of times a child brush his/her teeth.
- c. whether or not someone fail in an exam.
- d. Weight of babies at birth.
- e. the time to run a certain distance.

5. The continuous variable is a

- a. variable with a specific number of values.
- b. variable which can't be measured.
- c. variable takes on values within intervals.
- d. variable with no mode.
- e. qualitative variable.

6. which of the following is an example of continuous variable

- a. The number of visitors of the clinic yesterday.
- b. The time to finish the exam.
- c. The number of patients suffering from certain disease.
- d. Whether or not the answer is true.

7. The discrete variable is

a-qualitative variable.

b-variable takes on values within interval.

C-variable with a specific number of values.

d-variable with no mode.

8-Which of the following is an example of nominal variable :

a-age of visitors of a clinic.

b-The time to finish the exam.

c-Whether or not a person is infected by influenza.

d-Weight for a sample of girls .

9-The nominal variable is a

a-A variable with a specific number of values

b-Qualitative variable that can't be ordered.

c-variable takes on values within interval.

d-Quantitative variable .

10-Which of the following is an example of nominal variable :

a-The number of persons who are injured in accident.

b-The time to finish the exam.

c-Whether or not the medicine is effective.

d-Socio-economic level.

11-The ordinal variable is :

a-variable with a specific number of values.

b-variable takes on values within interval.

c-Qualitative variable that can be ordered.

d-Variable that has more than mode.