What is variable?

A variable is a property that can take on any value.

Height {182, 178, 168, 158, 160, 170}

Weight {78, 99, 100, 60, 50}

Two kinds of variables

1 Quantitative variable - > Measured numerically (can perform any mathematical function, add, subtract, mathematical calculation).

Age, Weight, Height.

Two types of Quantitative variables.

1 Discrete Variables 2 Continuous Variables

1 Discrete Variables

Whole Numbers

No of Bank A/C – 2,3,4,5,6,7, (Bank account can’t be 1.5).

Total no of Children in family – 1, 2, 3, 4 ( One can’t count children 2.5 )

2 Continuous Variable

E.g.

Height – 172.5, 162, 163 CM

Amount of Rain fall – 1.1, 1.2, 1.3 inches

1 What kind of variable Gender is? Categorical

2 What kind of variable Marital Status? Categorical

3 What kind of variable River Length? Continuous

4 What kind of variable population of the state is? Discreate

5 What kind of variable, Song length? Continuous

6 What kind of variable, Blood Pressure? Continuous

7 What kind of variable, PIN Code? Discrete

2 Qualitative / Categorical variables

Gender – Male or Female

Based on some characteristics we can derive categorical variables.

We can’t do mathematically function here.

Eg – IQ

0-10 10-50 50-100

Last IQ Medium IQ Good IQ

Blood Groups

A+ve; O + Ve etc

T-shirt size

L, XL, M, S