

UNIT TEST PAPER

Statistics

1. 40 students in a school were asked to rate their favourite sport by ticking any one of the choices below:

- Cricket Football Hockey
 Any other

The raw data collected in the survey is as follows:

a d b b c a b b a d
 a b a a b d a a a b
 b b c c a b c b b a
 a a a c d d a a a c

What is the mode of the given data?

Construct a tally chart and a simple frequency distribution table. Then display the given information in a column graph.

2. 40 students in a class were asked the distance in km between their homes and the school. The raw data collected in the survey is as follows:

6 11 8 11 7 9 11 8 11 8
 7 6 13 10 2 3 4 2 7 12
 2 9 4 12 7 4 9 8 2 6
 10 1 6 9 1 8 2 7 10 1

What are the arithmetic mean and median of the given data?

Distribute the given data in three class intervals, viz. < 5 , $5 - 10$ and > 10 and construct a grouped frequency table. Then construct a pie chart to display the given information.

3. The data given below represents the percentage of marks secured by 40 students in an examination.

50% 63% 52% 57% 41% 56%
 68% 55% 47% 59% 45% 56%
 39% 47% 58% 76% 52% 33%
 58% 41% 54% 73% 51% 30%
 49% 57% 30% 54% 65% 55%
 63% 59% 47% 57% 50% 61%
 52% 67% 58% 56%

Tabulate the given data in a grouped frequency table with 5 classes, the first class interval being 30–40. Then construct a histogram to display the given information.