## DATA HANDLING

### INTRODUCTION OF DATA HANDLING

### EXERCISE

- **Q.1** For which of these would you use a histogram to show the data ?
- (a) The number of letters for different areas in a postman's bag.
- (b) The height of competitors in an athletics meet.
- (c) The number of cassettes produced by 5 companies.
- (d) The number of passengers boarding trains from 7 : 00 a.m. to 7 : 00 p.m. at a station.Give reasons for each.
- Q.2 The shoppers who come to a departmental store are marked as : man (M), woman(W), boy(B) or girl(G). The following list gives the shoppers who came during the first hour in the morning :

W W W G B W W M G G M M W W W W G B M W B G G M W W M M W W W M W B W G M W W W W G W M M W G W M G W M M B G G W

Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.

**Q.3** The weekly wages (in Rs) of 30 workers in a factory are.

830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840

Using tally marks make a frequency table with intervals as 800-810, 810-820 and so on.

#### CLASS 8

- **Q.4** Draw a histogram for the frequency table made for the data in Question 3, and answer the following questions.
- (i) Which group has the maximum number of workers?
- (ii) How many workers earn Rs 850 and more?
- (iii) How many workers earn less than Rs 850?
- Q.5 The number of hours for which students of a particular class watched television during holidays is shown through the given graph.

Answer the following

- (i) For how many hours did the maximum number of students watch TV?
- (ii) How many students watched TV for less than 4 hours?
- (iii) How many students spent more than 5 hours in watching TV?



Hours of TV watched per day  $\rightarrow$ 

**Q.6** Fill in the blanks in the following data :

(a)

Item	Angle	Expenses
Clothing	-	2800
Rent	90º	-
Education	-	1800
Food	-	3600
Travel	65 <u>⁰</u>	-
Total	360 <u>°</u>	14400

## (b)

Item	Students	Angle
Bus	120	-
Cycle	-	90 <u>°</u>
Car	_	40º
Van	240	-
Scooter	-	50º
Total	720	360 <u>°</u>

# (c)

Item	Angle	No. of
		students
Bhangra	90º	-
Odissi	-	180
Kathak	80 <u>°</u>	-
Kathakali	-	150
Bharatanatyam	_	240

Total number of students learning dance is 1080.

## **ANSWER KEY**

**1.** (b), (d). In all these cases data can be divided into class intervals.

2.

Shopper	Tally marks	Number
W	7+++ 7+++ 7+++ 1++ 111	28
М	THH THH THH	15
В	774	5
G	THT THT II	12

3.

3   2   1   9
2 1 111 9
1     9
9
5
1
3
1
1
4

**4.** (i) 830 – 840

(ii) 10

(iii) 20

#### CLASS 8

MATHS





**6.** (a) 70<sup>°</sup>, 3600, 45<sup>°</sup>, 90<sup>°</sup> 2600

(b) 60°, 180, 80, 120°, 100

(c) 270, 60°, 240, 50°, 80°