



CLASS NOTES-ANSWERS

EXERCISE 5.1

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 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.

Answer:

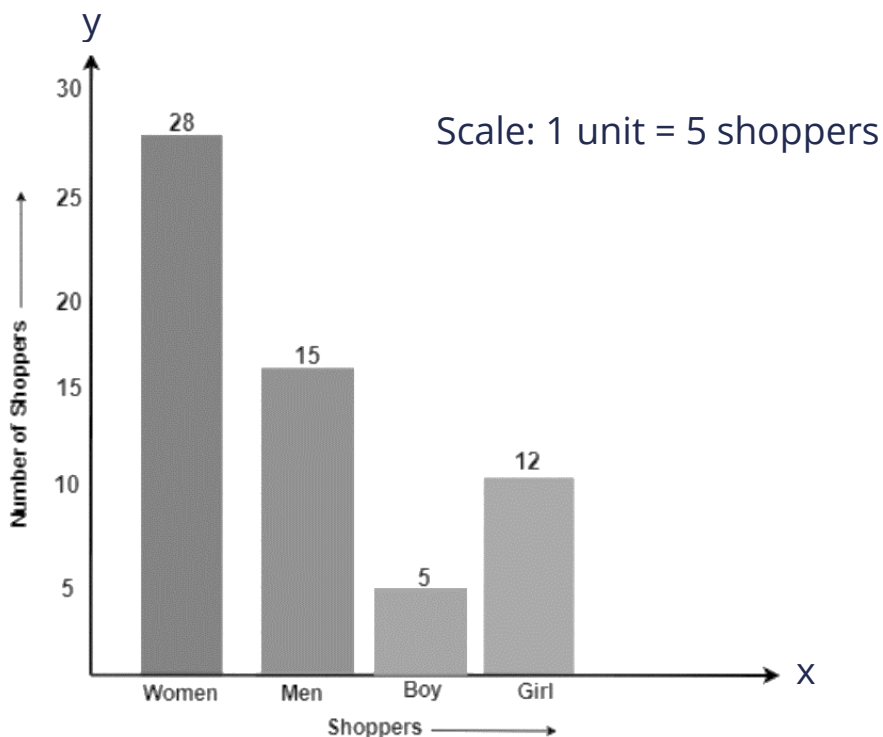
- a. The number of areas cannot be represented in class interval. So, we cannot use the histogram to show the data.
 - b. Height of competitors can be divided into intervals. So, we can use histogram here.
 - c. Companies cannot be divided into intervals. So, we cannot use histogram here.
 - d. Time for boarding the train can be divided into intervals. So, we can use histogram here.
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 W 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.

Answer:

Shopper	Tally Marks	Number of Shoppers
W		28
M		15
B		5
G		12
	Total	60



3. The weekly wages (in ₹) 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.

Answer:

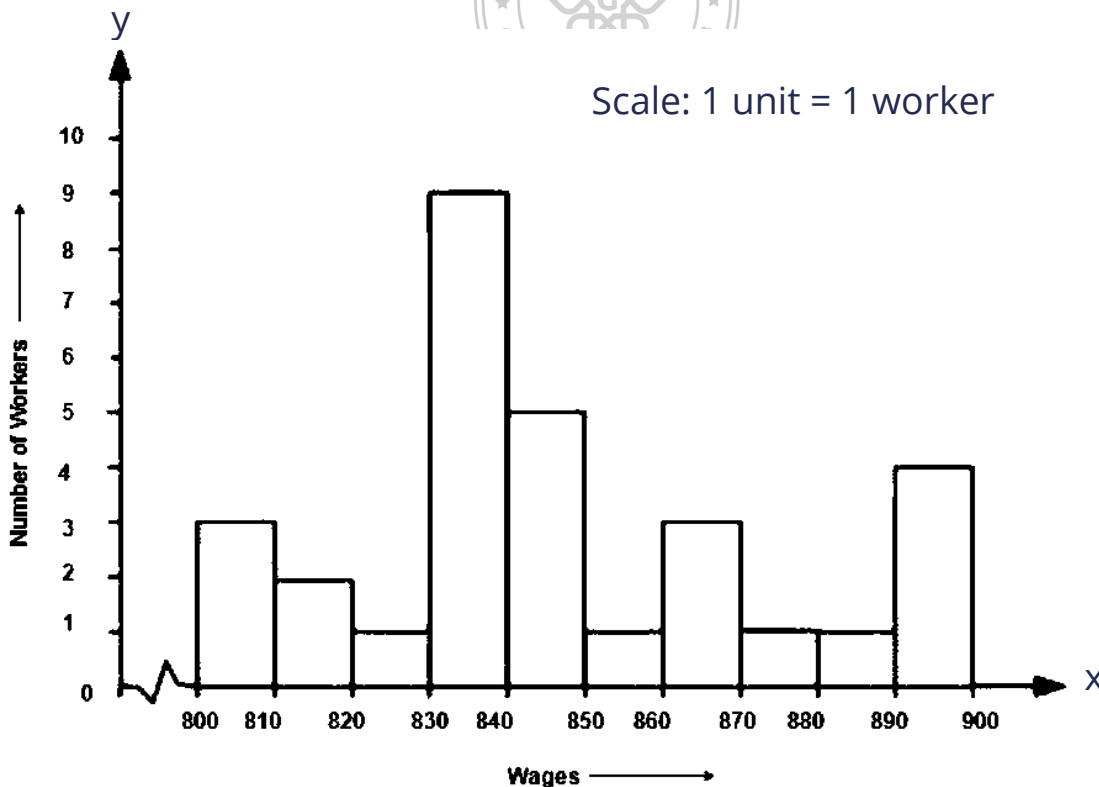


Class Intervals	Tally Marks	Frequency
800–810		3
810–820		2
820–830		1
830–840		9
840–850		5
850–860		1
860–870		3
870–880		1
880–890		1
890–900		4
	Total	30

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 ₹ 850 and more?
- (iii) How many workers earn less than ₹ 850?

Answer:



- (i) 830 – 840 group has the maximum number of workers.



(ii) 10 workers can earn more than Rs 850.

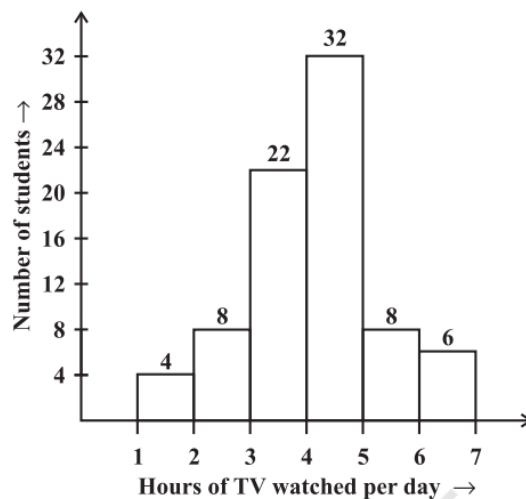
(iii) 20 workers earn less than Rs 850

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?



Answer:

(i) The maximum number of students watched T.V. for 4 – 5 hours.

(ii) 34 students watched T.V. for less than 4 hours.

(iii) 14 students spent more than 5 hours in watching T.V.