

RD Sharma
Solutions

Class 7

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Chapter - 24

Data handling - III

(Construction of bar graphs)

Exercise 24.1

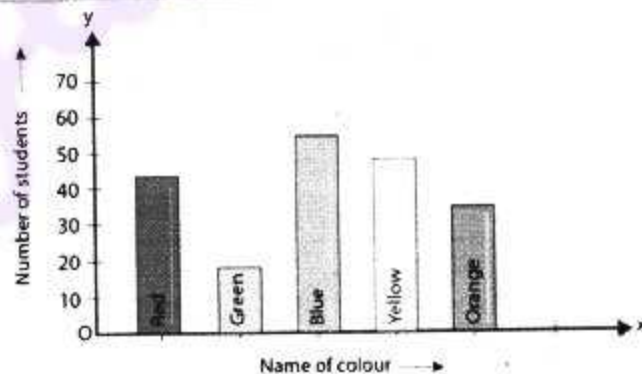
- 8.1 Two hundred students of class VI and VII were asked to name their favourite colours so as to decide upon what should be the colour of their school house. The results are shown in the following table.

Colour:	Red	Green	Blue	Yellow	Orange
Number of students:	43	19	55	49	34

Represent the given data on a bar graph.

- Which is the most preferred colour and which is the least?
- How many colours are there in all?

Solution:



- (i) Most preferred colour is Blue and least preferred colour is green.

(ii) Total colours = $40 + 20 + 60 + 50 + 35$
 $= 205$ students

Also, There are 5 colours in all.

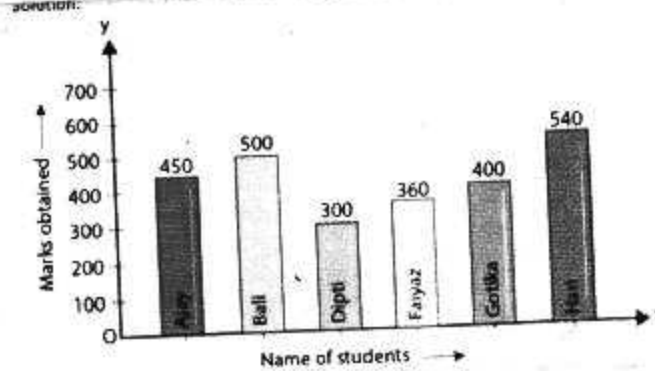
Q.2

2. Following data gives total marks (out of 600) obtained by six children of a particular class.

Student:	Ajay	Bali	Dipti	Faiyaz	Gotika	Hari
Marks obtained:	450	500	300	360	400	540

Represent the data by a bar graph

Solution:



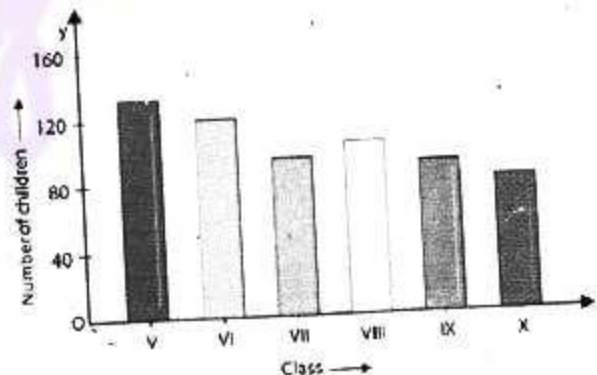
Q.3

3. Number of children in six different classes are given below. Represent the data on a bar graph.

Class:	V	VI	VII	VIII	IX	X
Number of children:	135	120	95	100	90	80

- How do you choose the scale.
- Which class has the maximum number of children?
- Which class has the minimum number of children?

Solution



(i) we choose 1 big block = 40 children.

(ii) class V

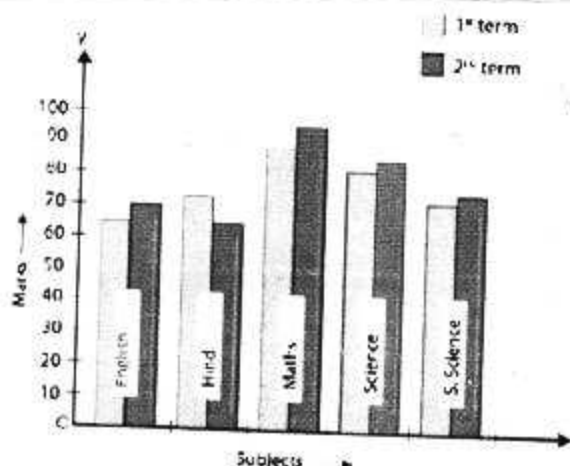
(iii) class X

4. The performance of students in 1st term and 2nd term is as given below. Draw a double bar graph choosing appropriate scale and answer the following:

Subject:	English	Hindi	Maths	Science	S. Science
1 st term:	67	72	88	81	73
2 nd term:	70	65	95	85	75

- (i) In which subject, has the children improved their performance the most?
(ii) Has the performance gone down in any subject?

Solution:



(i) In Maths, students improved their performance the most.

(ii) Yes, in Hindi performance gone down.

5. Consider the following data gathered from a survey of a colony:

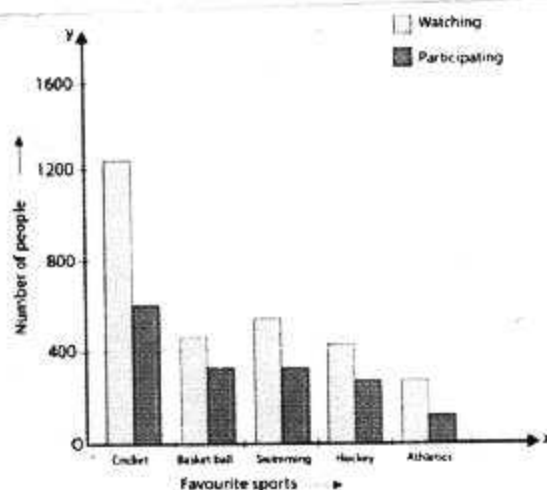
Q.5

Favourite Sport:	Cricket	Basket-Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	423	250
Participating	620	320	320	250	105

Draw a double bar graph choosing an appropriate scale. What do you infer from the bar graph?

- (i) Which sport is most popular?
(ii) What is more preferred watching or participating in sports?

Solution:



(4)

Solution: (i) Cricket is Most popular Sports.

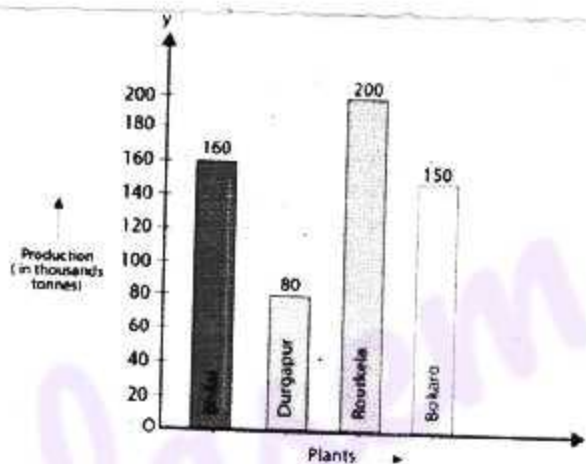
(ii) Watching is More preferred than participating.

Q.5 The production of saleable steel in some plants of our country during 1999 is given below:

Plant	Bhilai	Durgapur	Rourkela	Bokaro
Production (In thousand tonnes)	160	80	200	150

Construct a bar graph to represent the above data on a graph paper by using the scale 1 big division = 20 thousand tonnes.

Solution:

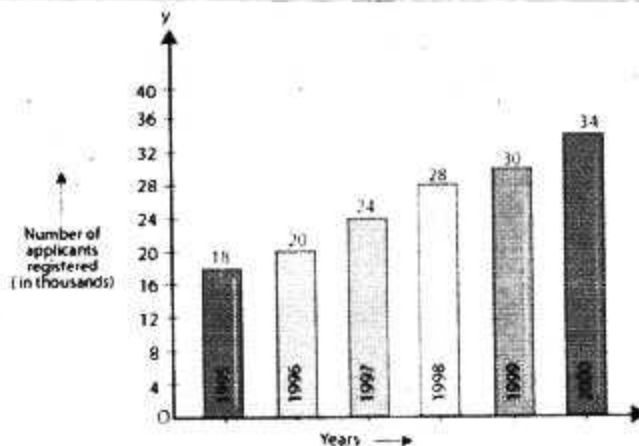


Q.6 6. The following data gives the number (in thousands) of applicants registered with an Employment Exchange during, 1995-2000:

Year	1995	1996	1997	1998	1999	2000
Number of applicants registered (in thousands)	18	20	24	28	30	34

Construct a bar graph to represent the above data.

Solution:

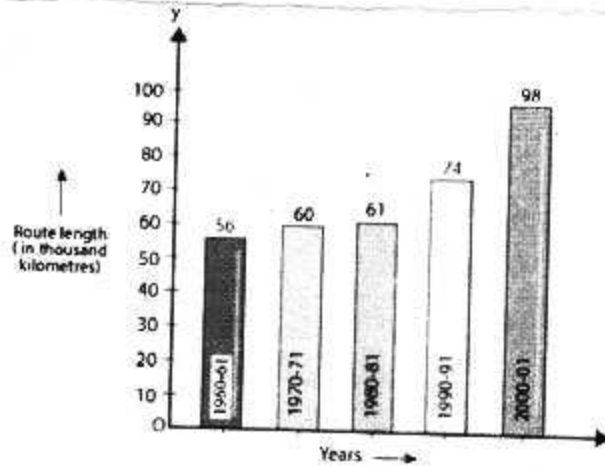


7. The following table gives the route length (in thousand kilometres) of the Indian Railways in some of the years:

Year	1960-61	1970-71	1980-81	1990-91	2000-2001
Route length (in thousand kilometres)	56	60	61	74	98

Represent the above data with the help of a bar graph.

Solution



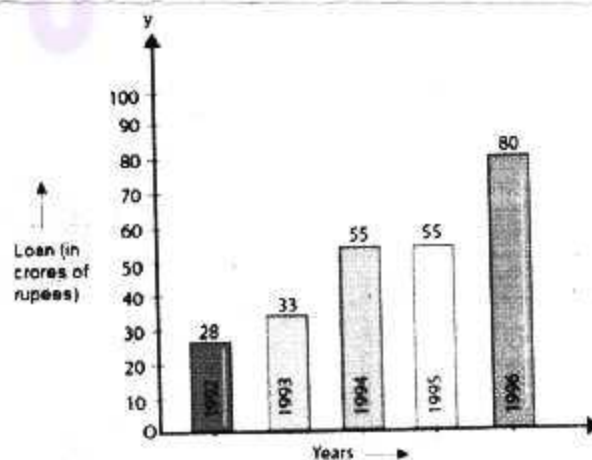
Q8

8. The following data gives the amount of loans (in crores of rupees) disbursed by a bank during some years:

Year	1992	1993	1994	1995	1996
Loan (in crores of rupees)	28	33	55	55	80

- (i) Represent the above data with the help of a bar graph.
(ii) With the help of the bar graph, indicate the year in which amount of loan is not increased over that of the preceding year.

Solution: (i)



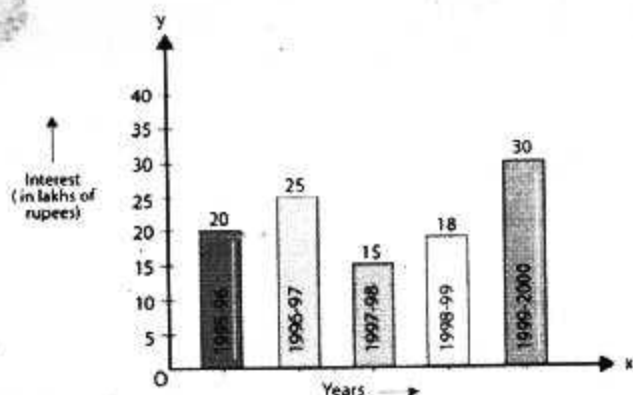
(ii) In year 1995

9. The following table shows the interest paid by a company (in lakhs):

Year	1995-96	1996-97	1997-98	1998-99	1999-2000
Interest (in lakhs of rupees)	20	25	15	18	30

Draw the bar graph to represent the above information.

Solution :

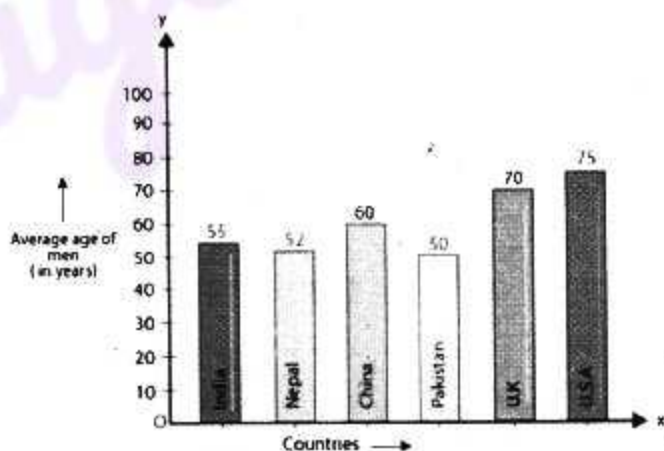


10. The following data shows the average age of men in various countries in a certain year:

Country	India	Nepal	China	Pakistan	U.K.	U.S.A.
Average age (in years)	55	52	60	50	70	75

Represent the above information by a bar graph.

Solution :

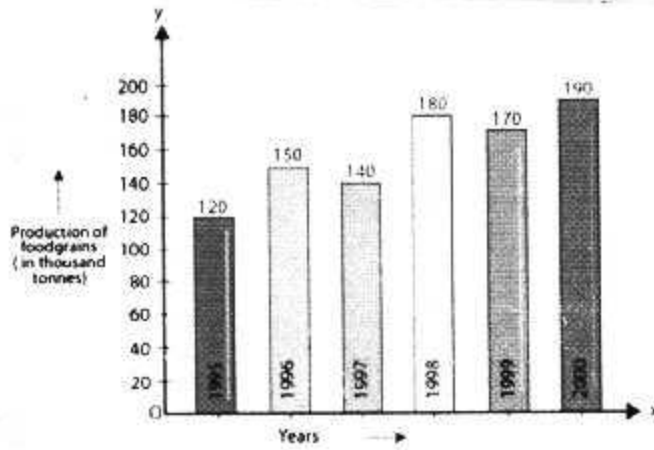


11. The following data gives the production of foodgrains (in thousand tonnes) for some years:

Year	1995	1996	1997	1998	1999	2000
Production (in thousand tonnes)	120	150	140	180	170	190

Represent the above data with the help of a bar graph.

Solution!



12. The following data gives the amount of manure (in thousand tonnes) manufactured by a company during some years:

Year	1992	1993	1994	1995	1996	1997
Manure (in thousand tonnes)	15	35	45	30	40	20

(i) Represent the above data with the help of a bar graph.

(ii) Indicate with the help of the bar graph the year in which the amount of manure manufactured by the company was maximum.

(iii) Choose the correct alternative:

The consecutive years during which there was maximum decrease in manure production are:

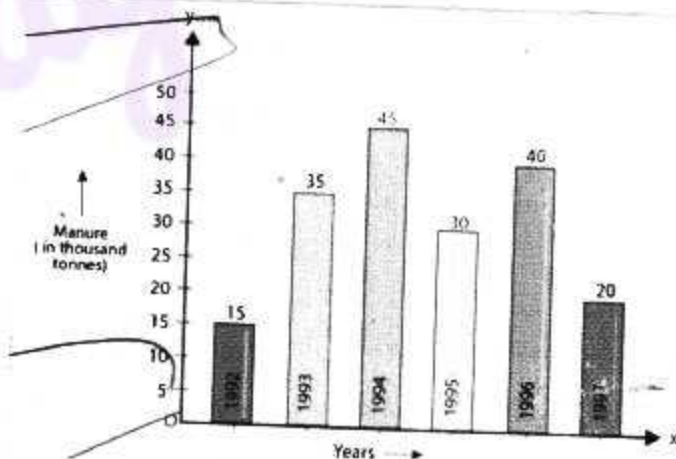
(a) 1994 and 1995

(b) 1992 and 1993

(c) 1996 and 1997

(d) 1995 and 1996

Solution



Solution: (i) 1994

(ii) In 1996 and 1997