

DATA HANDLING

Subtopic: USE OF BAR GRAPHS

Section 1

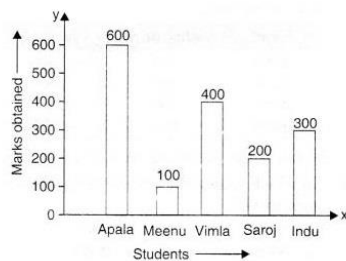
1. Mark T for True and F for False

1a. A bar graph is a representation of numbers using bars of uniform widths.

1b. Double bar graphs help to compare two collections of data at a glance.

2. Choose the correct answer.

2a. The ratio between the marks obtained by Saroj and Vimla is



a) 1:2

b) 2:3

c) 3:4

d) 1:6

2b. Which of the following has the same median mode and mean?

a) 6, 2, 5, 4, 3, 4, 1

b) 4, 2, 2, 1, 1, 2, 3

c) 2, 3, 7, 3, 8, 3, 2

d) 4, 3, 4, 3, 4, 6, 4

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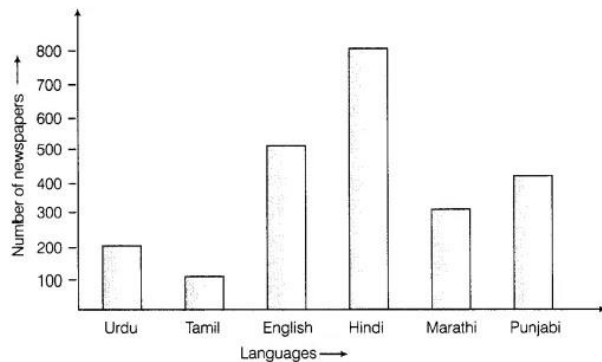
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3. Fill in the blanks

3a. Mode is the _____ bar if the bar represents frequency.

3b. The representation of data with bars of uniform width is called _____.

4. Answer questions based on graph below.



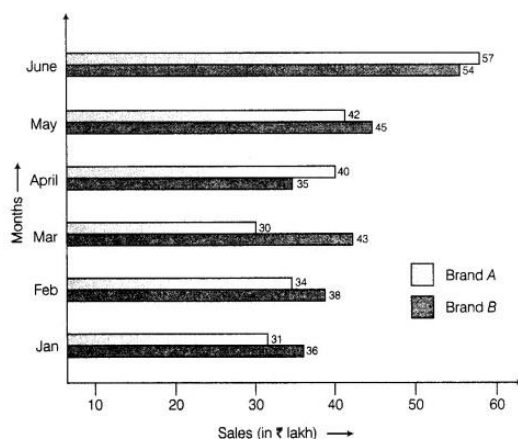
- Find the total number of newspapers read in Hindi, Punjabi, Urdu, Marathi and Tamil.
- Find the excess number of newspapers read in Hindi than those in English.
- Name the language in which the least number of newspapers are read.
- Write the total circulation of newspaper in the town.

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Section 2

5. Study the double bar graph and answer the questions below.



- What information is represented by the above double bar graph?
- In which month sales of brand A decreased as compared to the previous month?
- What is the difference in sales of both the brands for the month of June?
- Find the average sales of brand B for the six months.
- List all months for which the sales of brand B was less than that of brand A.
- Find the ratio of sales of brand A as compared to brand B for the month of January.

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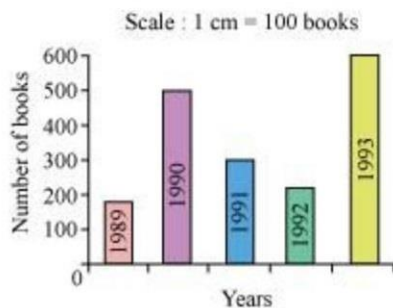
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6. 200 students of 6th and 7th classes were asked to name their favourite colour so as to decide upon what should be the colour of their school building. The results in the table. Represent the data in a bar graph.

Fav Colour	Red	Green	Blue	Yellow	Orange
No of students	431	19	55	49	34

Answer from graph: 1) Which is the most preferred colour? 2) Which is the least preferred? 3) How many colours are there in all? What are they?

7. Read the Bar graph which shows the number of books sold by a bookstore. Answer the questions: 1) About how many books were sold in the year 1989 1990 and 1992? 2) In which year were about 475 books sold & in which year were 225 books sold? 3) In which years were fewer than 250 books sold? 4) explain how you would estimate the number of books sold in 1989?



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8. Number of children in six different classes are given below. Represent the data on a bar graph. Choose an appropriate scale. Answer the following questions after drawing the bar graph. 1) Which class has the maximum number of children? Which class has the minimum? 2) Find the ratio of students of class 6 to class 8.

Class	Fifth	Sixth	Seventh
Number of children	135	120	95

Section 3

9. The performances of a student in 1st and 2nd term is given. Draw a double bar graph choosing appropriate scale and answer the following:
- In which subject, has the child improved his performance the most?
 - In which subject is his improvement the least?
 - Has the performance gone down in any subject?

Subject	English	Hindi	Maths	Science	S. Science
1 st term (MM = 100)	67	72	88	81	73
2 nd term (MM = 100)	70	65	95	85	75

Answer the following questions: 1) In which subject has the child improved his performance the most? 2) In which subject is the improvement the least? 3) Has the performer gone down in any subject?

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10. Take the data giving the minimum and maximum temperature of various cities. Plot a double bar graph using the data and answer the following.

Temperatures of Cities		
City	Max.	Min.
Ahmedabad	38°C	29°C
Amritsar	37°C	26°C
Bangalore	28°C	21°C
Chennai	36°C	27°C
Delhi	38°C	28°C
Jaipur	39°C	29°C
Jammu	41°C	26°C
Mumbai	32°C	27°C

- (i) Which city has the largest difference in the minimum and maximum temperature on the given date?
- (ii) Which is the hottest city, and which is the coldest city?
- (iii) Name two cities where max temperature of one was less than the minimum temperature of the other.
- (iv) Name the city which has the least difference between its minimum and maximum temperature.