



# MATHS

## BOOKS - RS AGGARWAL MATHS (HINGLISH)

### BAR GRAPHS

#### Example

1. The marks obtained by Kunal in his annual examination are shown below:

Draw a bar graph to represent the above data

<i>Subject</i>	<i>Hindi</i>	<i>English</i>	<i>Mathematics</i>	<i>Science</i>	<i>Social Studies</i>
<i>Marks obtained</i>	63	75	90	72	58



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2. The number of cycles produced in a factory during five consecutive weeks is given below

Draw a bar graph representing the above information

<i>Week</i>	<i>First</i>	<i>Second</i>	<i>Third</i>	<i>Fourth</i>	<i>Fifth</i>
<i>Number of cycles produced</i>	800	1300	1060	920	1440



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3. The following table shows the annual export of an Indian company during five consecutive years (in crores of rupees)

Draw a bar graph representing the above data

Year	2012-13	2013-14	2014-15	2015-16	2016-17
Export (in crores of rupees)	120	154	176	128	96



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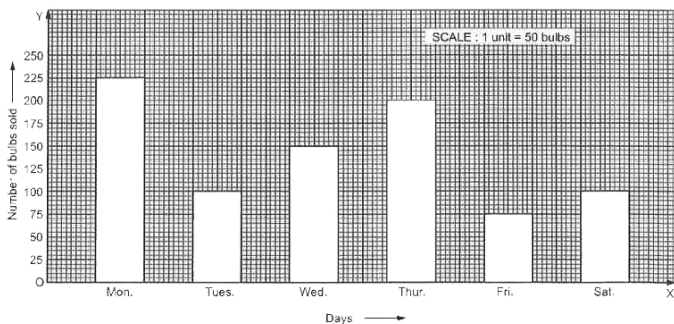
4. Given below is a graph showing the number of electric bulbs sold in a shop during a week  
Read the bar graph carefully and answer the following questions

(i) On which day of the week was the sale minimum?

(ii) On which day of the week was the sale maximum

(iii) What was the total sale during the week

(iv) What is the ratio between the minimum sale and the maximum sale



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5. Read the bar graph given below

Read the bar graph carefully and answer the following questions

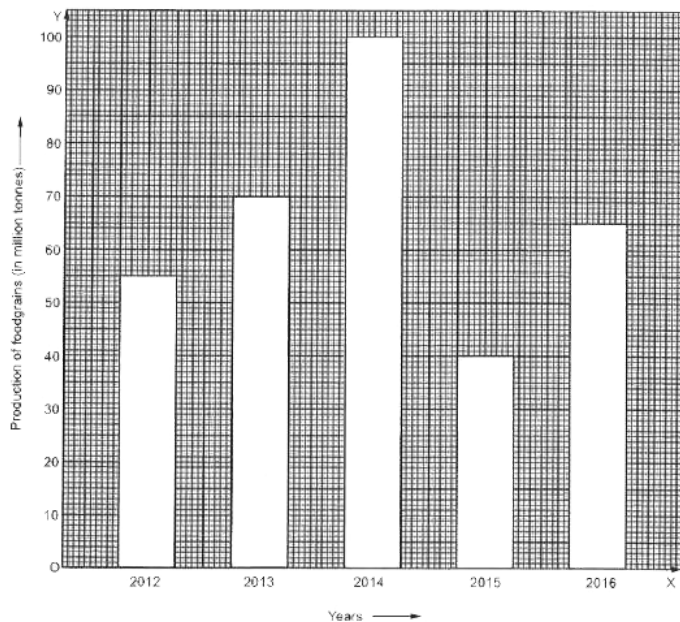
Q(i) What information is given by the bar graph

(ii) In which year was the production maximum

(iii) After which year was there a sudden fall in the production

(iv) Find the ratio between the maximum production and the minimum production

during the given period



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**6.** The marks obtained by a student in various subjects in first term and the second term, out

of 100 in each test are given below Draw a double bar graph choosing appropriate scale and answer the questions given below

<i>Subject</i>	<i>English</i>	<i>Hindi</i>	<i>Mathematics</i>	<i>Science</i>	<i>Social Science</i>
<i>Marks obtained in first term</i>	65	70	88	82	71
<i>Marks obtained in second term</i>	67	68	94	85	76

(i) In which subject, has the child improved his performance the most?

(ii) In which subject, is the improvement the least

(iii) Has the performance gone down in any subject



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## Exercise 22

1. The marks of a student in different subjects are given below

Draw a bar graph from the above information

Subject	Hindi	English	Maths	Science	Social Science
Marks	43	56	80	65	50



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2. The following table shows the favourite sports of 250 students of a school. Represent



the data by a bar graph

Sports	Cricket	Football	Tennis	Badminton	Swimming
No. of students	75	35	50	25	65



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3. Given below is a table which shows the yearwise strength of a school. Represent this data by a bar graph

Year	2011-12	2012-13	2013-14	2014-15	2015-16
No. of students	800	975	1100	1400	1625



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4. The following table shows the number of scooters produced by a company during six consecutive years. Draw a bar graph to represent this data

Year	2011	2012	2013	2014	2015	2016
No. of scooters	11000	14000	12500	17500	15000	24000



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5. The birth rate per thousand in five countries over a period of time is shown below

Country Birth rate per thousand

Represent the above data by a bar graph

Country	China	India	Germany	UK	Sweden
Birth rate per thousand	42	35	14	28	21



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6. The following data shows India's total population (in millions) from 1961 to 2011. Year

Year	1961	1971	1981	1991	2001	2011
Population (in millions)	360	420	540	680	1020	1200

Draw the bar graph of given data



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7. The following table shows the interest paid by India (in thousand crore rupees) on external debts during the period 1998–99 to 2002-03. Represent the data by a bar graph

Year	1998–99	1999–2000	2000–01	2001–02	2002–03
Interest (in thousand crore rupees)	70	84	98	106	120



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8. The air distances of four cities from Delhi (in km) are given below

Draw a bar graph to represent the above data

City	Kolkata	Mumbai	Chennai	Hyderabad
Distance from Delhi (in km)	1340	1100	1700	1220



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9. The following table shows the life expectancy (average age to which people live) in various countries in a particular year.

Represent this data by a bar graph

Country	Japan	India	Britain	Ethiopia	Cambodia
Life expectancy (in years)	76	57	70	43	36



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**10.** The following table shows the imports (in thousand crore rupees) made by India over the last five years. Draw a bar graph to represent this data

Year	2001-02	2002-03	2003-04	2004-05	2005-06
Imports (in thousand crore rupees)	148	176	204	232	180



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**11.** The data given below shows the average rainfall in Udaipur from June to November of a certain year. Draw a bar graph to represent

this information

Month	June	July	Aug.	Sept.	Oct.	Nov.
Average rainfall	25 cm	30 cm	40 cm	20 cm	10 cm	5 cm



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**12.** The following table shows the market position of different brands of soaps. Draw a bar graph to represent this data

Brand	A	B	C	D	Others
Percentage of buyers	45	25	15	10	5



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**13.** Gold prices on 4 consecutive Tuesdays were as under

Draw a bar graph to show this information

Week	First	Second	Third	Fourth
Rate per 10 g (in ₹)	8500	8750	9050	9250



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**14.** Various modes of transport used by 1850 students of a school are given below

Draw a bar graph to represent the above data

School bus	Private bus	Bicycle	Rickshaw	By foot
640	360	490	210	150





**15.** Look at the bar graph given below

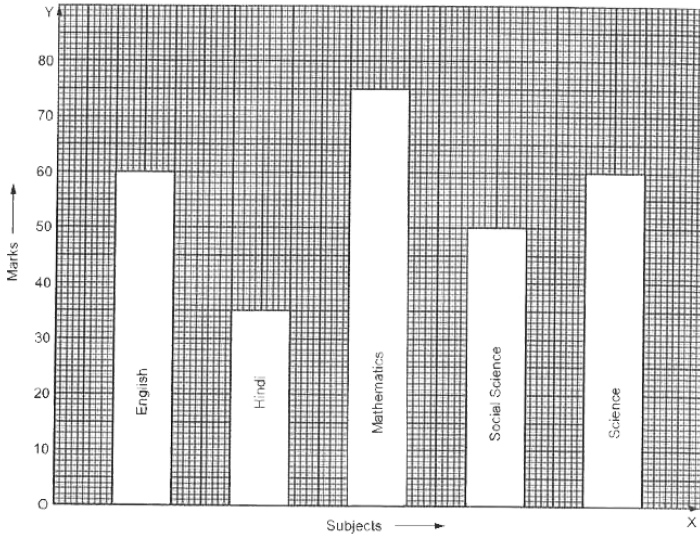
Read it carefully and answer the following questions

Q(i) What information does the bar graph give

(ii) In which subject is the student very good

(iii) In which subject is he poor

(iv) What is the average of his marks



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**16.** In a survey of 85 families of a colony, the number of members in each family was recorded and the data has been represented

by the following bar graph

Read the bar graph carefully and answer the questions given below

Q (i) What information does the bar graph give

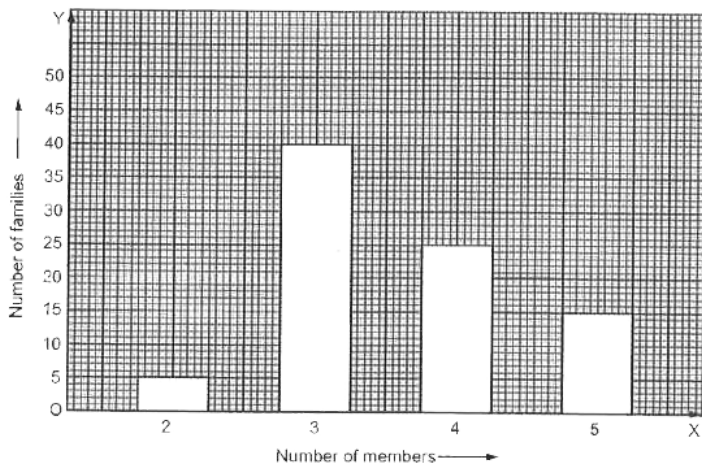
(ii) How many families have 3 members

(iii) How many people live alone

(iv) Which type of family is the most common?

How many members are there in each family of

this kind

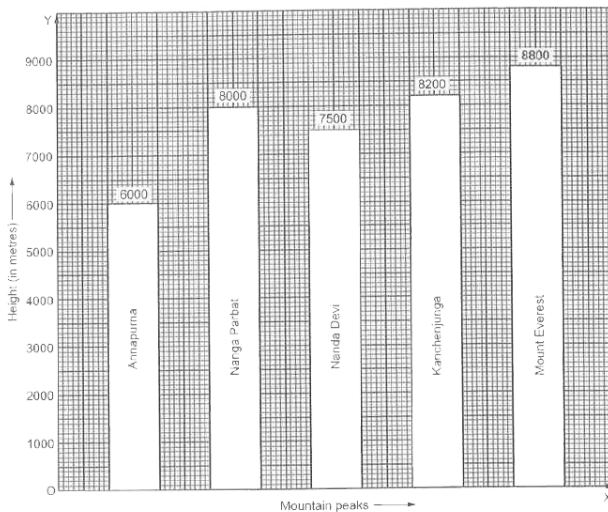


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**17.** Given below is a bar graph showing the heights of five mountain peaks

Read the bar graph carefully and answer the following questions

Q(i) Which is the highest peak and what is its height (ii) What is the ratio of the heights of the highest peak and the next highest peak (iii) Arrange the heights of the given peaks in descending order



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**18.** In a public library, the following observations were recorded by the librarian in a particular week:

Days	Mon	Tues	Wed	Thurs	Fri	Sat
Newspaper Readers	400	600	350	550	500	350
Magazine Readers	150	100	200	300	250	200

(a) Draw a double bar graph choosing an appropriate scale.

(b) On which day, the number of readers in the library was maximum?

(c) What is the mean number of magazine readers?



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**19.** On a particular day in a school, the attendance in each of the classes from VI to X has been recorded as under

Draw a double bar graph, choosing an appropriate scale. Using the bar graph, answer the questions given below

Class	VI	VII	VIII	IX	X
Total no. of students	95	90	82	75	68
Number of students present on that day	92	85	78	69	62

(i) Which class has the maximum number of students (ii) Find the ratio of number of students present to the total number of

students in Class VII. (iii) What percent of Class IX students were absent



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20. Consider the data, showing the average daily hours of sunshine in two cities Aberdeen and Margate for six months of an year Draw a double bar graph, to depict the above information

Month	January	February	March	April	May	June
Number of hours of sunshine in Aberdeen	2	$3\frac{1}{4}$	4	$4\frac{1}{2}$	$7\frac{3}{4}$	8
Number of hours of sunshine in Margate	$1\frac{1}{2}$	3	$3\frac{1}{2}$	6	$5\frac{1}{2}$	$6\frac{1}{2}$

(i) In which month does Aberdeen have



maximum sunlight?

(ii) In which month does Margate have minimum sunlight?



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21. The table given below shows the population of four towns over two years

Q (i) The table given below shows the population of four towns over two years

(ii) In which town was the population growth maximum

(iii) In which town was the population growth least

Hint Take 1 unit = 1 lakh people

Towns	A	B	C	D
2016	640000	830000	460000	290000
2017	750000	920000	630000	320000



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22. Study the double bar graph given below and answer the questions that follow

Q(i) What has been compared in the given double bar graph

(ii) What is the ratio of minimum

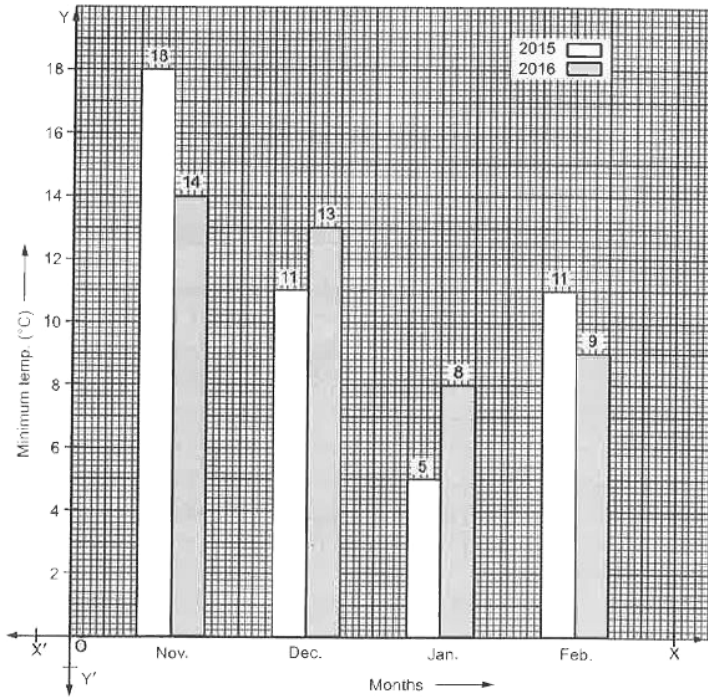
temperatures in the year 2015 to the year 2016  
in the month of November

(iii) Name the months in which the minimum temperature in 2015 was greater than that in 2016

(iv) Find the average minimum temperature for the year 2016 for the given four months

(v) In which month is the variation in two

# temperatures maximum



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