



MATHS

BOOKS - ICSE

DATA HANDLING

Example

1. The minimum temperature (in $^{\circ}C$) during the day at Delhi has been recorded for 30 days, as given below:

11.8, 11.6, 11.6, 11.4, 11.3, 11.4,

11.7, 11.7, 11.3, 11.4, 11.7, 11.7,

11.6, 11.3, 11.5, 11.8, 11.3,

11.3, 11.4, 11.5, 11.3, 11.5, 11.5,

11.8, 11.5, 11.4, 11.3, 11.6, 11.5

Construct a frequency table for the above data.



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2. Given below are the marks obtained by 40 students in an examination :

40 56 24 41 51 22 59 12 26 46

51 14 23 59 58 29 41 35 36 40

42 43 36 33 38 52 23 24 13 55

18 54 20 57 30 24 43 50 26 15

Taking class intervals

$10 - 20$, $20 - 30$, , $50 - 60$, construct a

frequency table for the above distribution.



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3. The approximate speeds of some objects are given below. Draw a bar graph to represent

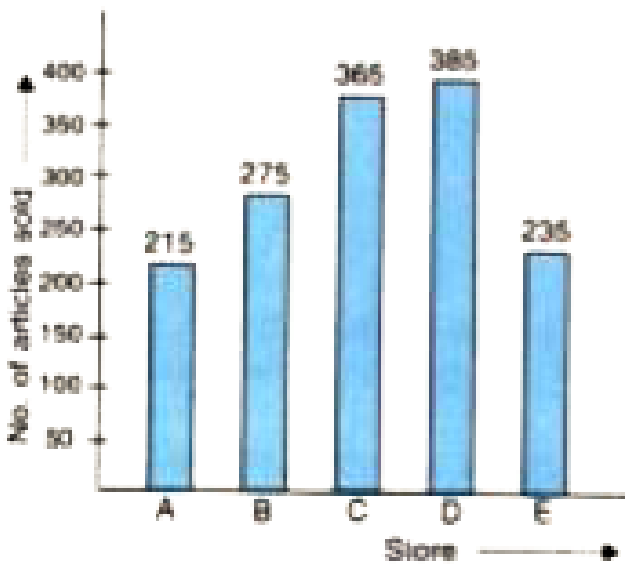
them.

Name of objects	Bicycle	Scooter	Car	Bus	Train
Speed (in km/hr)	10	40	60	50	80



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4. The given bar graph shows the number of identical articles sold by 5 different stores A, B, C, D and E during a particular month.



Study the bar graph and answer the following questions :

(i) Which store sold the largest number of articles ?

(ii) By what per cent is the sale of store D more than that of store B ?

(iii) Find the ratio of the total sale of the two

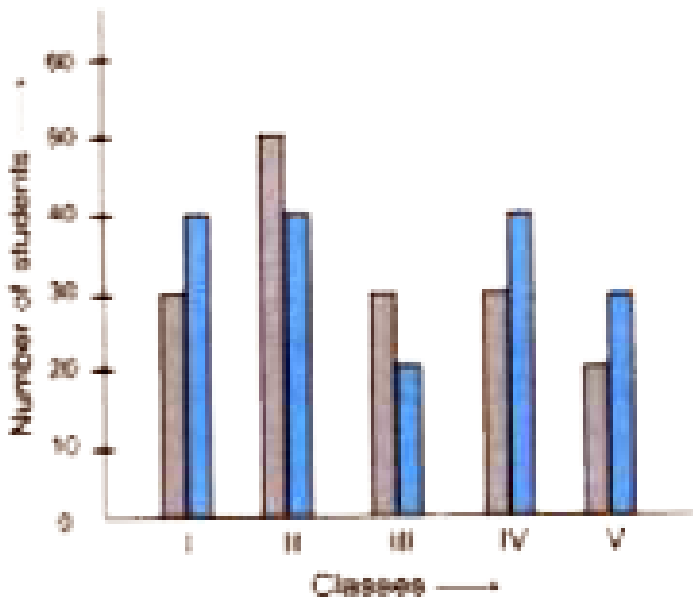
highest selling stores to the total sale of the two least selling stores.

(iv) By how much must store E increase its sale to catch up with its nearest rival store ?



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5. Examine the given graph carefully.



In the graph show above represents the number of girls in a particular class and represents the number of boys in the same class.

Read and answer the following questions.

(i) Which class has the least number of students ?

(ii) Which class has maximum number of students ?

(iii) What is the ratio between the number of girls and the number of boys of class V.



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6. The adjoining diagram shows a pie-chart with central angles for number of players playing four games A, B, C and D. If each player

takes part in only one game and there are 480 players in all, find :

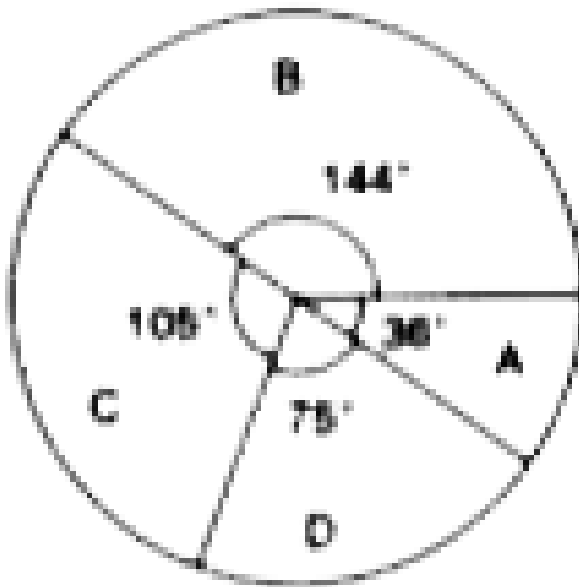
(i) how many players play the game D?

(ii) how many players do not play game B?

(iii) what is the ratio of players playing game A to the players playing game C ?

(iv) what percentage of players are playing

game B?



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Exercise 22 A

1. Arrange the following data as an array (in ascending order): (i) 7,5, 15, 12, 10, 11, 16

(ii) 6.3, 5.9, 9.8, 12.3, 5.6,4.7



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2. Arrange the following data as an array (descending order): (i) 2,0,3,4, 1, 2, 3,5

(ii) 9.1, 3.7, 5.6, 8.3, 11.5, 10.6



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3. Construct a frequency table for the following data:

(i) 6,7,5, 6, 8, 9, 5, 5, 6, 7, 8, 9, 8, 10, 10, 9, 8, 10, 5, 7, 6,8

(ii) 3,2,1,5, 4, 3, 2, 5, 5, 4, 2, 2, 2, 1,4,1,5,4



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4. Following are the marks obtained by 30 students in an examination :

15	20	8	9	10
16	17	20	24	30
44	47	38	36	40
27	25	28	30	19
7	11	21	31	41
37	47	23	20	17

Taking class intervals 0-10 , 10-20,..... , 40-50,
construct a frequency table.



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5. Construct a frequency distribution table for
the following data, taking class-intervals
4 – 6, 6 – 8,, 14 – 16.

11.5, 6.3, 7.8, 9.2, 10.5,

4.5, 6, 8.3, 12.5, 15.8,

7.4, 5.3, 8.4, 15.2, 8.9,

9.8, 8.25, 6.5, 5.8, 10.5,

14.2, 15.3, 11.7, 9.9, 8.8,

6.6, 4.3, 4.7, 9.4, 10.1,

15.5, 14.4, 12.2, 7.7, 5.5.



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Exercise 22 A Fill In The Blanks

1. Lower class limit of 15 - 18 is

A. 15

B. 16

C. 17

D. 18

Answer: A



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2. Upper class limit of 24 - 30 is

A. 30

B. 40

C. 60

D. 50

Answer: A



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3. Upper limit of $5 - 12.5$ is

A. 12.7

B. 12.6

C. 12.5

D. 12.8

Answer: C



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4. If the upper and the lower limits of a class interval are 16 and 10, the class-interval is ...

A. 18 – 12

B. 10 – 16

C. $16 - 10$

D. $17 - 11$

Answer: B



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5. If the lower and the upper limits of a class interval are 7.5 and 12.5, the class interval is

.....

A. 5

B. 6

C. 7

D. 8

Answer: A



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Exercise 22 B

1. Hundred students from a certain locality use different modes of travelling to school as

given below. Draw a bar graph.

Bus	Car	Rickshaw	Bicycle	Walk
32	16	24	20	8



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2. Mr. Mirza's monthly income is ₹ 7,200 . He spends. ₹ 1,800 on rent ₹ 2,700 on food, ₹ 900 on education of his children ₹ 12,00 on other things and saves the rest. Draw a pie-chart to represent it.



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3. The percentage of marks obtained, in different subjects by Ashok Sharma (in an examination) are given below. Draw a bar graph to represent it.

English	Hindi	Maths	Science	Social Studies
85	60	35	50	70



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4. The following table shows the market position of different brands of tea-leaves.

Brand	A	B	C	D	others
% Buyers	35	20	20	15	10



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5. Students of a small school use different modes of travel to school as shown below:

Mode	Bus	Car	Bicycle	Auto	On foot
No. of students	142	98	50	34	16

Draw a suitable bar graph



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6. For the following table, draw a bar-graph

A	B	C	D	E	F
230	400	350	200	380	160



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7. Manoj appeared for ICSE examination 2018 and secured percentage of marks as shown in the following table :

Subject	Hindi	English	Maths	Science	Social Study
Marks as percent	60	45	42	48	75

Represent the above data by drawing a suitable bar graph.



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8. For the data given above in question number 7, draw a suitable pie-graph.

Subject	Hindi	English	Maths	Science	Social Study
Marks as percent	60	45	42	48	75



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9. Mr. Kapoor compares the prices (in) of different items at two different shops A and B. Examine the following table carefully and

represent the data by a double bar graph.

Items	Price (in ₹) at shop A	Price (in ₹) at Shop B
Tea-set	900	950
Mixie	700	800
Coffee-maker	600	700
Dinner set	600	500



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10. The following table shows the mode of transport used by boys and girls for going to the same school.

	Bus	Bicycle	Walking	Other sources
Number of boys	80	60	20	85
Number of girls	90	75	35	60

Draw a double bar graph representing the above data.



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