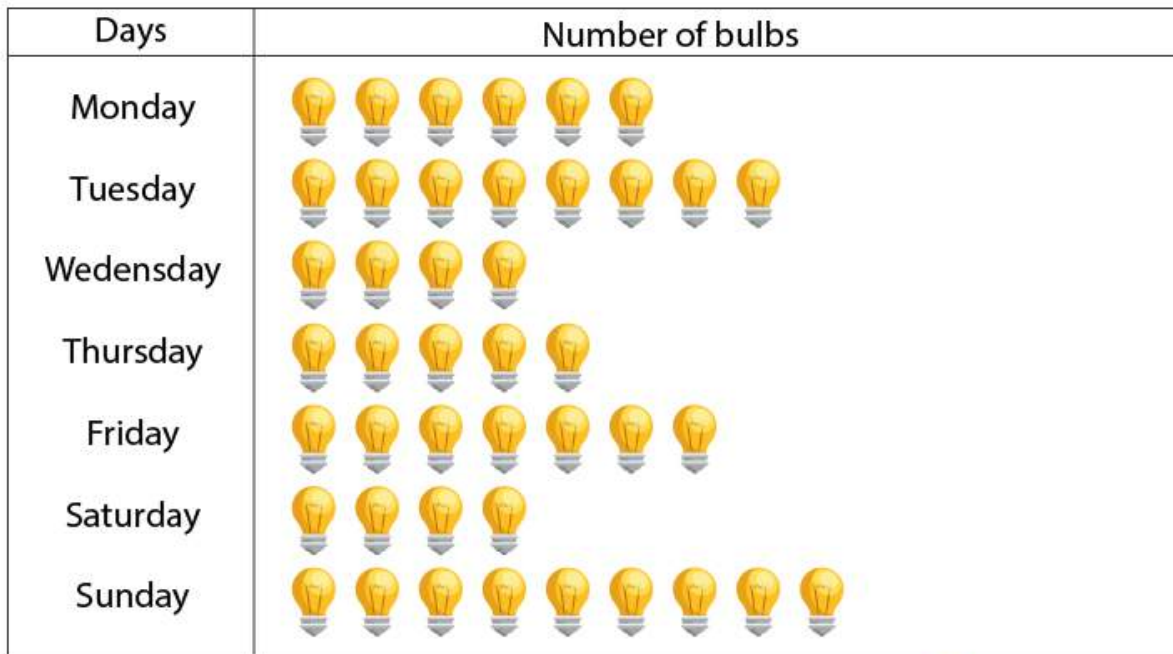


EXERCISE 22.1

PAGE: 22.5

1. The sale of electric bulbs on different days of a week is shown below:



 = 2 bulbs

Observe the pictograph and answer the following questions:

- How many bulbs were sold on Friday?
- On which day maximum number of bulbs were sold?
- If one bulb was sold at the rate of Rs 10, what was the total earning on Sunday?
- Can you find out the total earning of the week?
- If one big carton can hold 9 bulbs. How many cartons were needed in the given week, more than 7, more than 8 or more than 9?

Solution:

(i) No. of bulbs shown on Friday = 7

We know that 1 figure = 2 bulbs

So the total number of bulbs sold on Friday = $2 \times 7 = 14$

Hence, 14 bulbs were sold on Friday.

(ii) From the pictograph we know that Sunday shows the maximum bulb figures.

Hence, maximum number of bulbs were sold on Sunday.

(iii) No. of bulb figures on Sunday = $2 \times 9 = 18$

Cost of one bulb = Rs 10

So the total earning on Sunday = $10 \times 18 = \text{Rs } 180$






(iv) Total bulb figures shown throughout the week = $6 + 8 + 4 + 5 + 7 + 4 + 9 = 43$

So the total number of bulbs = $43 \times 2 = 86$

Total earning of the week = $10 \times 86 = \text{Rs } 860$

(v) We know that total number of bulbs = 86
It is given that one carton can hold 9 bulbs
So for holding 86 bulbs we require = $86 \div 9 = 9.59$ cartons
Hence, more than 9 cartons are needed.

2. A survey was carried out in a certain school to find about the different modes of transport used by students to travel to school each day. 30 students of class VI were interviewed and the data obtained was displayed in the form of a pictograph given below:

Mode of Transport	Number of students
Scooter	
Public Bus	
School Bus	
Cycle	
Walking	

Look at the above pictograph and answer the following questions:

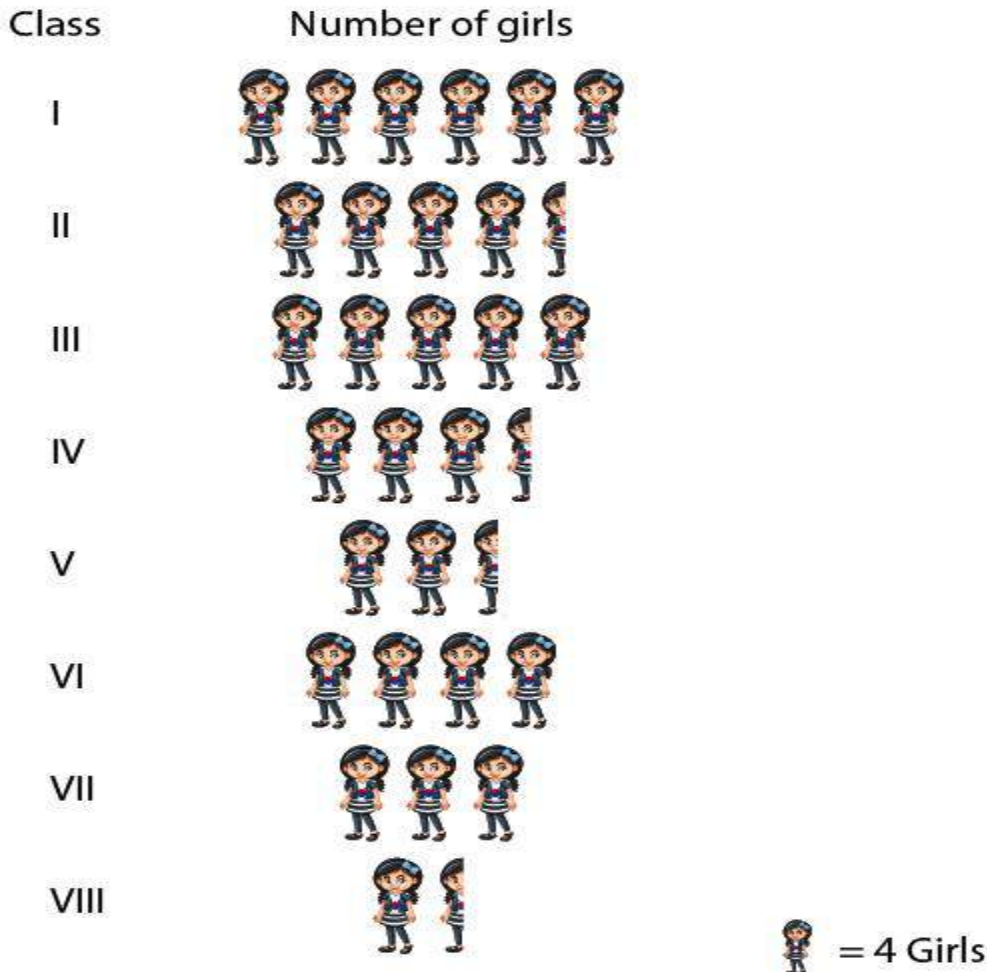
- Look at the above pictograph and answer the following questions.
- How many students are using cycle or walking as a mode of travel?
- Which is most popular mode of travel?

Solution:

(i) From the pictograph we know that
No. of students using cycle = 3
No. of students using walking as a mode of travel = 8
So the number of students using cycle or walking as a mode of travel = $3 + 8 = 11$

(ii) From the pictograph we know that maximum number of students use school bus as a mode of travel.
Hence, the most popular mode of travel to school is school bus.

3. The number of girl students in each class of co-ed. Middle school is depicted by the following pictograph:



Observe the above pictograph and answer the following questions:

- Which class has the maximum number of girl students?
- Is the number of girls in class VI is less than the number of girls in class V?
- How many girls are there in VII class?

Solution:

Using the above pictograph, we can prepare the chart to find the number of girl students in each class.
It is given that 1 figure = 4 girls

Class	Number of girls
I	$6 \times 4 = 24$
II	$4.5 \times 4 = 18$
III	$5 \times 4 = 20$
IV	$3.5 \times 4 = 14$
V	$2.5 \times 4 = 10$
VI	$4 \times 4 = 16$
VII	$3 \times 4 = 12$
VIII	$1.5 \times 4 = 6$

(i) Using the chart we know that maximum number of girls are present in Class I.
Hence, Class I has the maximum number of girls.

(ii) We know that

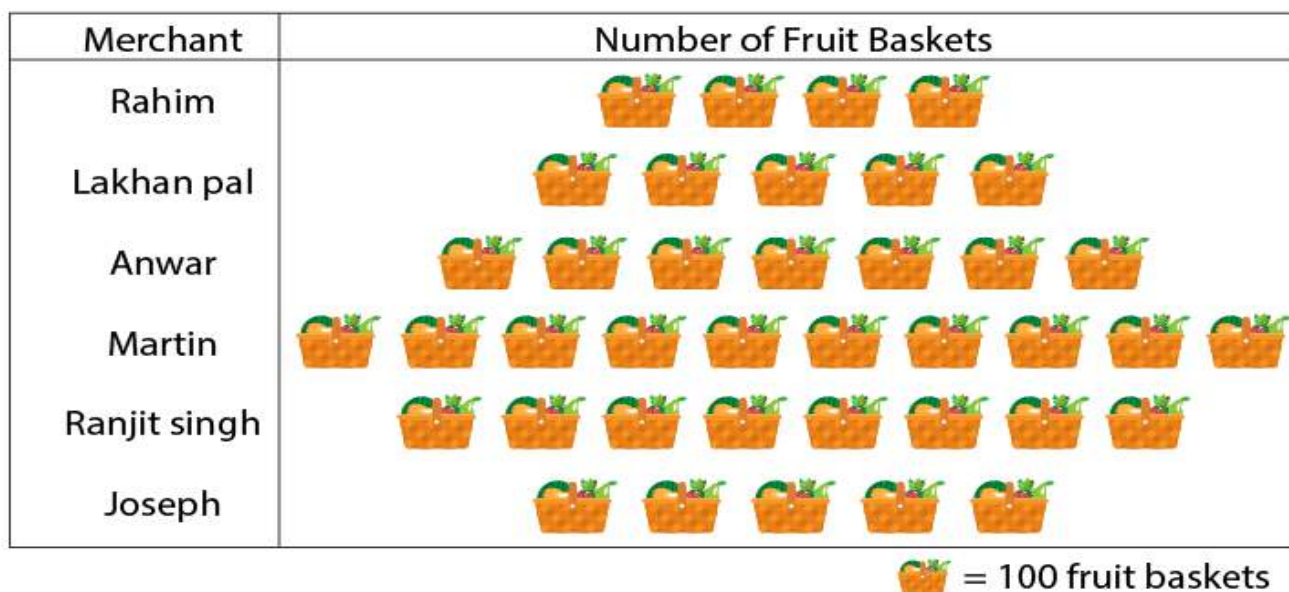
No. of girls in Class VI = 16

No. of girls in Class V = 10

No, the number of girls in class VI is not less than the number of girls in class V.

(iii) Using the chart we know that 12 girls are there in Class VII.

4. In a village six fruit merchants sold the following number of fruit baskets in particular season:



Observe the above pictograph and answer the following questions.

(i) Which merchant sold the maximum number of baskets?

(ii) How many fruit baskets were sold by Anwar?

(iii) The merchants who have sold 600 or more number of baskets are planning to buy a godown for the next season. Can you name them?

Solution:

We know that 1 figure = 100 fruit baskets

Using the above pictograph, we can prepare a chart to find the maximum number of fruit baskets sold by each merchant.

Merchant	Number of fruit baskets
Rahim	$4 \times 100 = 400$
Lakhan pal	$5.5 \times 100 = 550$
Anwar	$7 \times 100 = 700$
Martin	$9.5 \times 100 = 950$
Ranjit Singh	$8 \times 100 = 800$
Joseph	$4.5 \times 100 = 450$

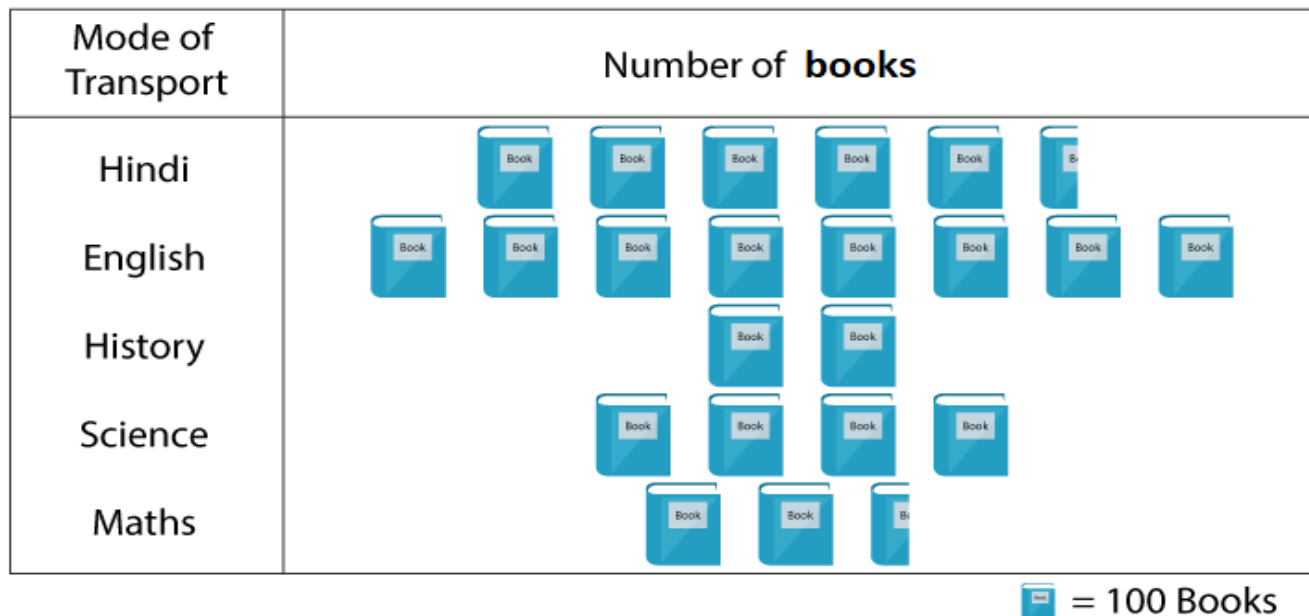
(i) From the above chart we know that Martin has sold maximum number of fruit baskets.

(ii) 700 fruit baskets were sold by Anwar.

(iii) From the chart we know that Anwar has sold 700 fruit baskets, Martin has sold 950 fruit baskets and Ranjit singh has sold 800 fruit baskets.

Hence, Anwar, Martin and Ranjit Singh are planning to buy a godown for the next season.

5. The pictograph shows different subject books which are kept in a library.



(i) How many English books are there in the library?

(ii) How many Maths books are there?

(iii) Which books are maximum in number?

(iv) Which books are minimum in number?

Solution:

Using the above pictograph we can prepare the chart to find the number of books present in the library:

Subjects	Number of books
Hindi	$5.5 \times 100 = 550$
English	$8 \times 100 = 800$
History	$2 \times 100 = 200$
Science	$4 \times 100 = 400$
Math	$2.5 \times 100 = 250$

(i) Using the chart, we know that 800 English books are there in the library.

(ii) From the chart, we know that 250 Math books are there in the library.

(iii) We know that English books are maximum in number from the above chart.

(iv) We know that History books are minimum in number from the above chart.