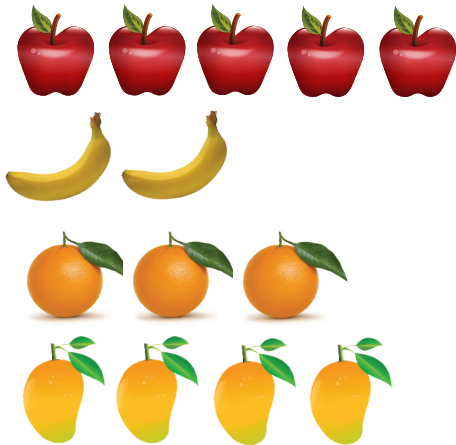


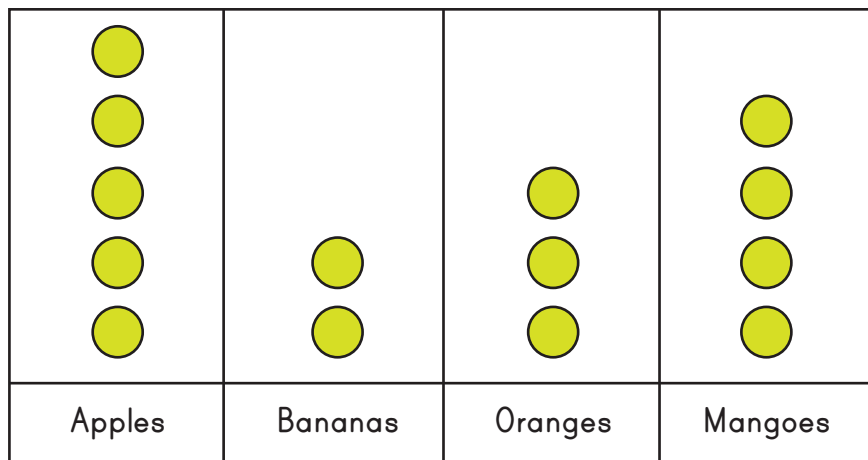
CHAPTER 9: INFORMATION HANDLING

9.1 Bar graph

Sara buys four types of fruits in different quantities.



She uses a picture graph to show the number of each type of fruit she bought.



Each  stands for 1 fruit.

We can read the picture graph by counting the  in each column.

Sara bought 5 apples, 2 bananas, 3 oranges and 4 mangoes.

We can also show this data on a vertical bar graph.

A bar graph uses bars instead of pictures to show data.



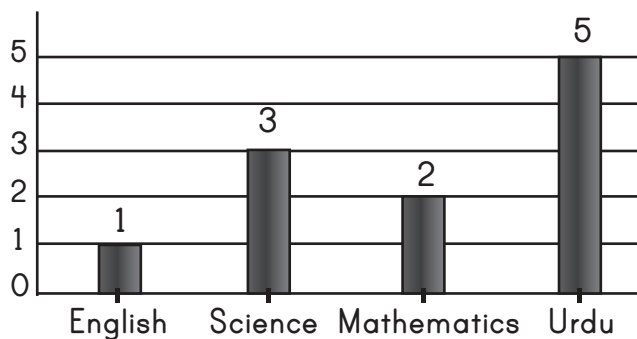
We can find out how many apples, bananas, oranges and mangoes Sara bought by reading the scale on the bar graph.

The bar at apples goes to 5, the bar at bananas goes to 2, the bar at oranges goes to 3 and the bar at mangoes goes to 4.

Ahmad collected books on different subjects as shown in the table.

Subjects	Number of Books
English	1
Science	3
Mathematics	2
Urdu	5

We can also show this data on a bar graph.



Read the scale and write the number of books Ahmad has.

English: The scale reads 1. Ahmad has 1 English book.

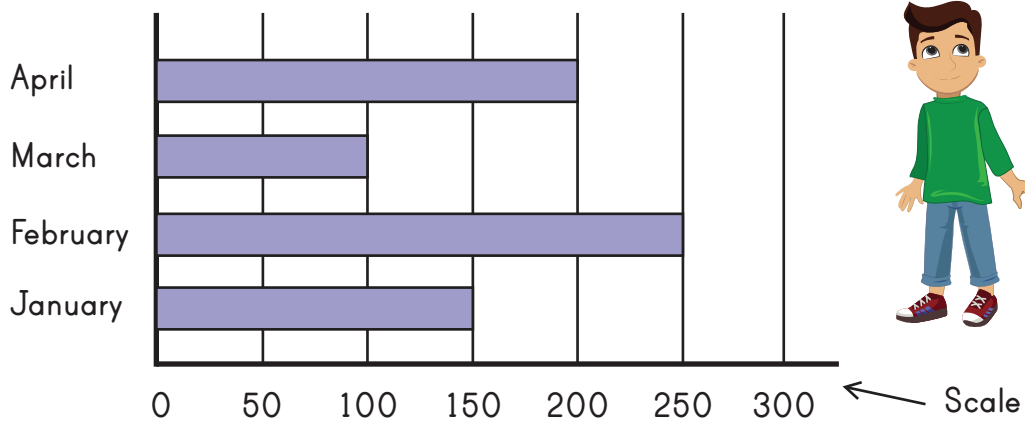
Science: The scale reads _____. Ahmad has _____ Science books.

Mathematics: The scale reads _____. Ahmad has _____ Mathematics books.

Urdu: The scale reads _____. Ahmad has _____ Urdu books.

We can also represent data on a horizontal bar graph.

The bar graph shows number of toys sold by a shopkeeper over four months.



The number of toys sold every month can be read from graph.

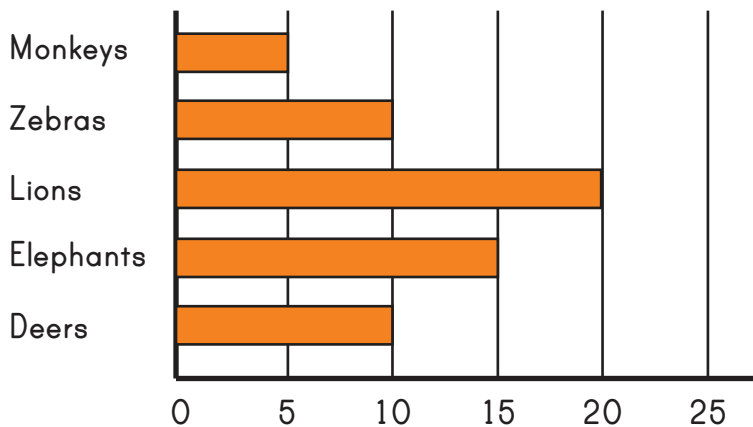
January 150

February 250

March 100

April 200

The bar graph shows different number of animals kept in a zoo.



Read the scale and write the number of animals.

Monkeys _____ Zebras _____ Lions _____

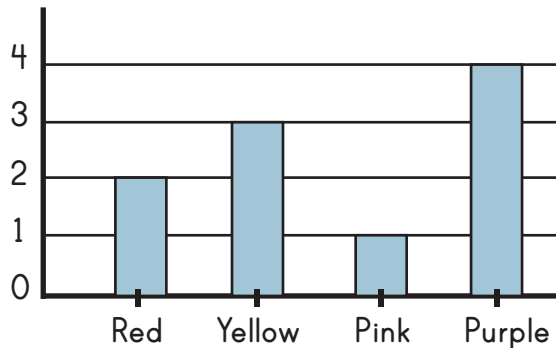
Elephants _____ Deers _____

9.2 Line graph

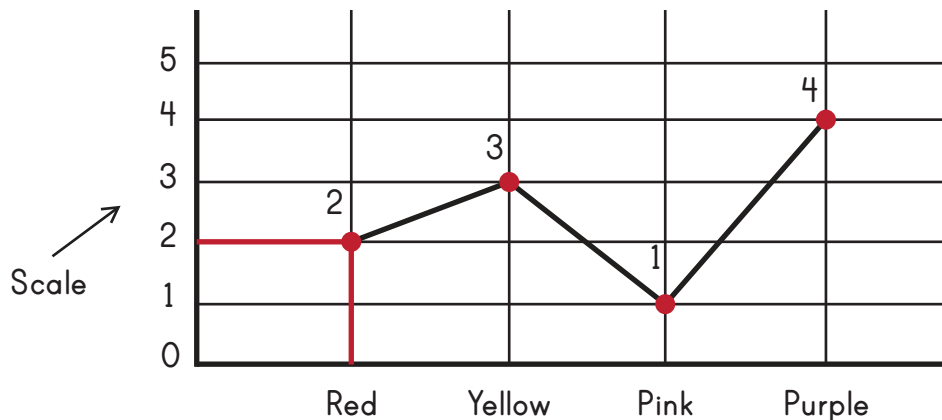
Ahmad has flowers of 4 different colours. The following table shows number of flowers of every colour, Ahmad has.

Colour	Number of flowers
Red	2
Yellow	3
Pink	1
Purple	4

We can show this data on a bar graph.



We can also show this data on a line graph. On a line graph, instead of bars, we just put dots and join them by a line.



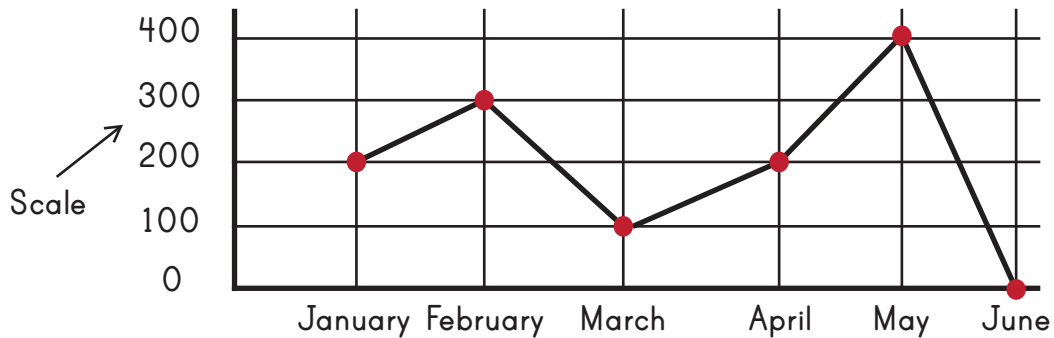
We can read the scale on the line graph.

Look at the dot above **Red**. On the scale, it reads 2.

This means Ahmad has 2 red flowers. Similarly, the scale tells us that Ahmad has 3 yellow flowers, 1 pink flower and 4 purple flowers.

A line graph uses lines to show the data.

Ali saves some money every month. A line graph below shows his savings.

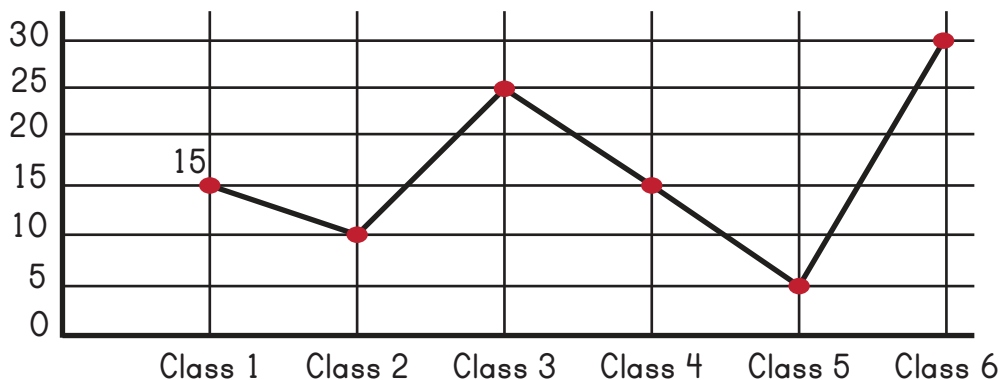


Write the amount of money Ali saved every month.

January 200 February 300 March 100
 April 200 May 400 June 0

Look at the line graph below.

The line graph shows number of students in different classes in a school.



Read the graph and write the number of students in each class.

Class 1 15 Class 4
 Class 2 Class 5
 Class 3 Class 6