

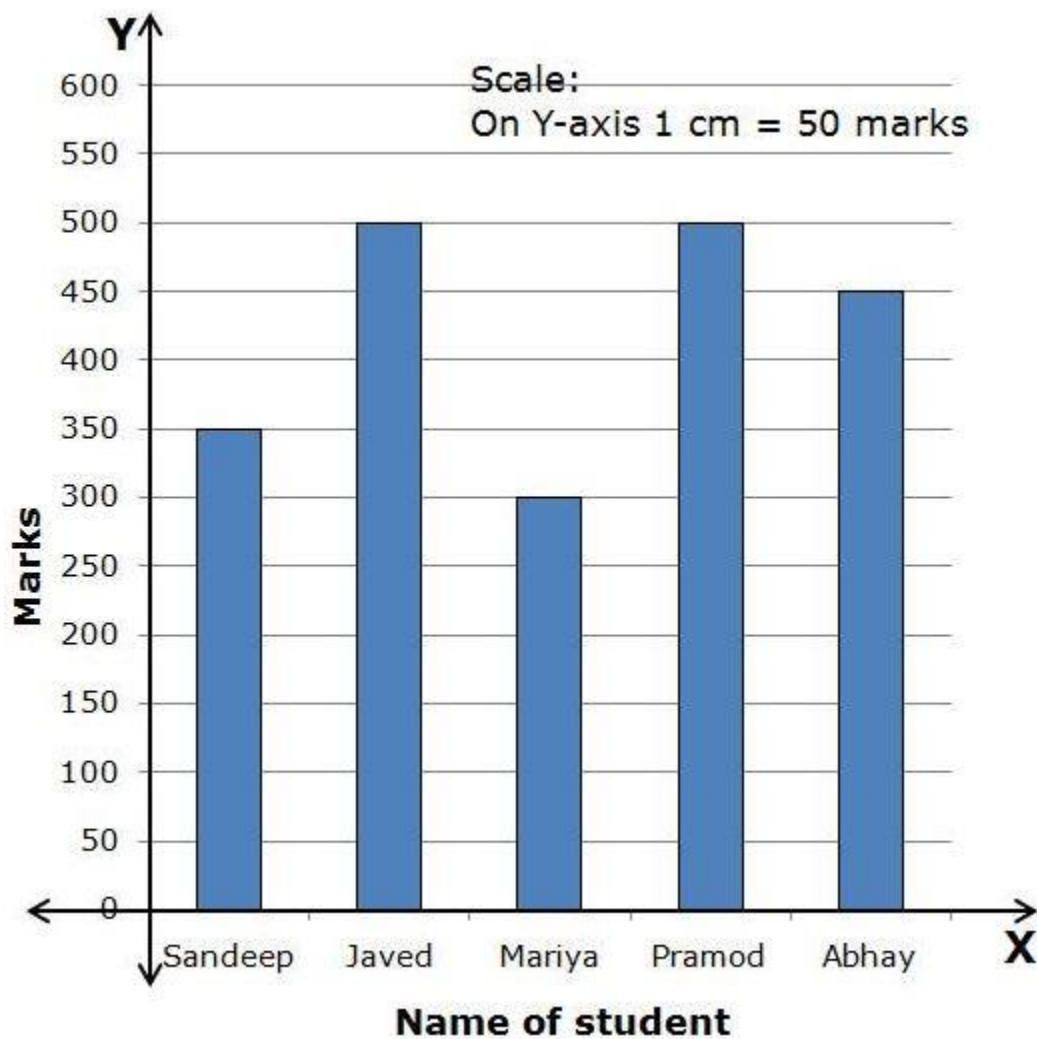
Joint Bar Graphs

Exercise 82:

Solution 1:

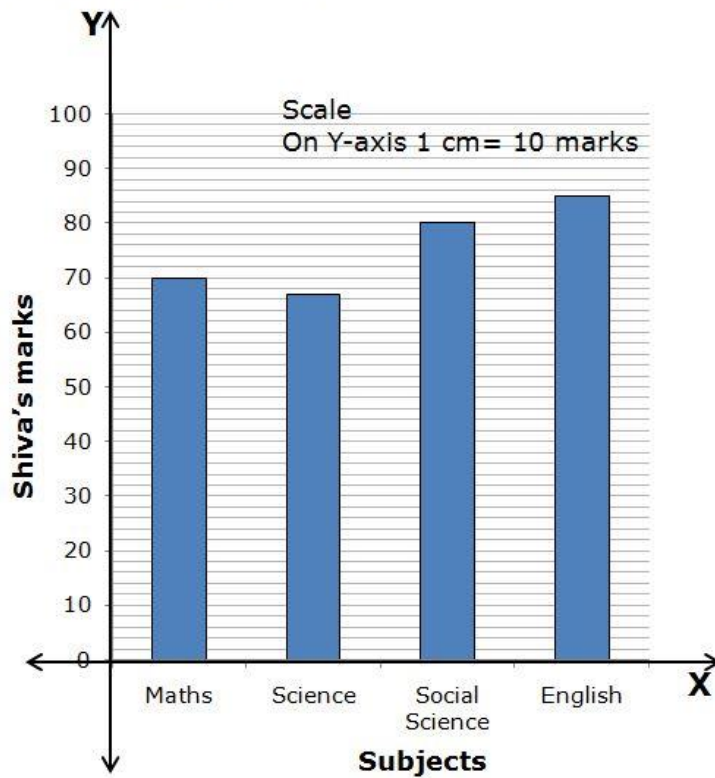
1. To draw a bar graph two lines at right-angles to each other are drawn on graph paper. Of these lines, the horizontal one is called X-axis and the vertical one Y-axis.
2. The point of intersection of X-axis and Y-axis is called the origin.
3. The X-axis and Y-axis form an angle of 90 degrees with each other.

Solution 2:

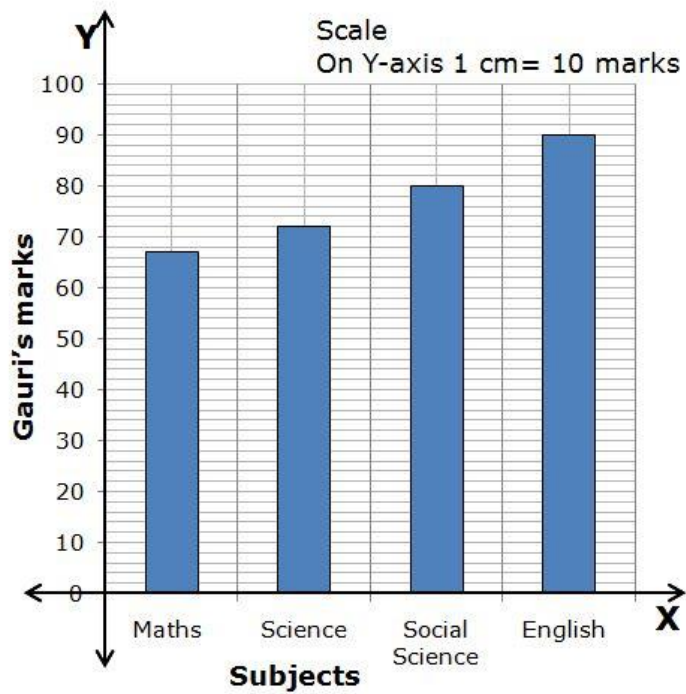


Solution 3:

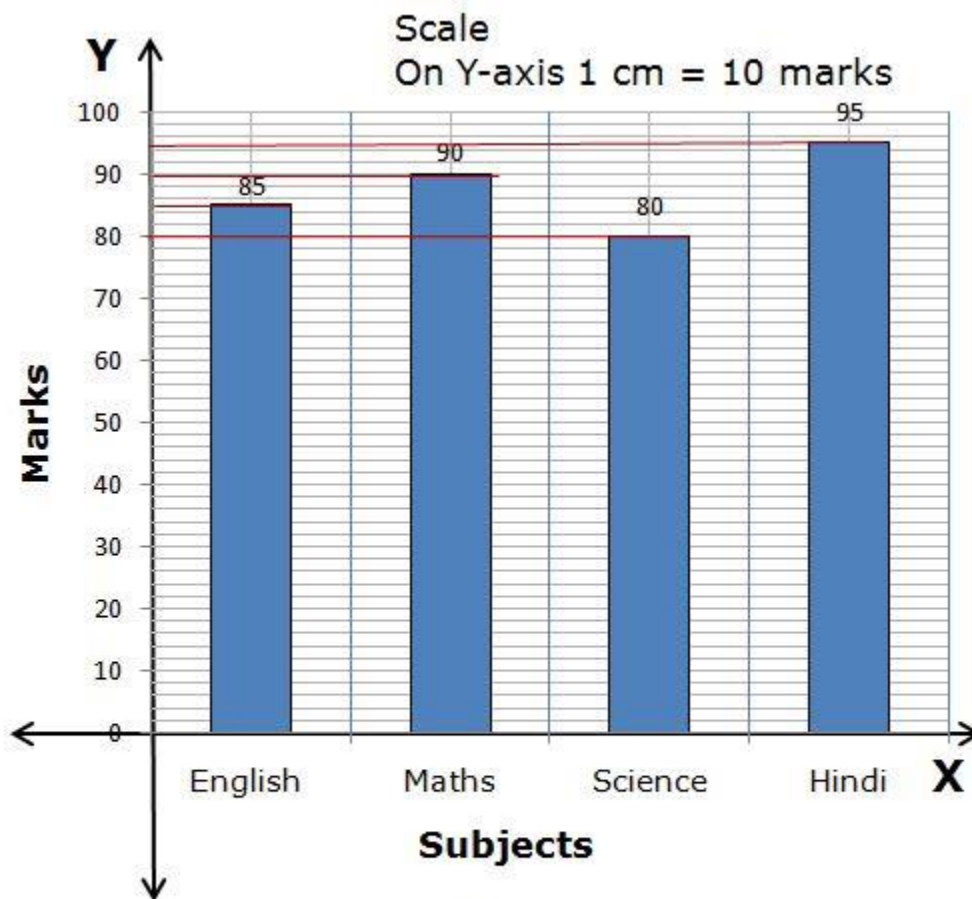
The bar graph for Shiva's marks is as follows:



The bar graph for Gauri's marks is as follows:



Solution 4:



1. Niranjan got the highest marks in Hindi.
2. Niranjan scored 90 marks in Maths.
3. Niranjan got 85 marks in English.
4. Niranjan scored the lowest marks in Science.

Exercise 83:

Solution 1:

- In Marathi, Govinda scored 65 marks in the first term examination and 70 marks in the second term examination.
- Govinda's marks fell in Hindi and Science in the second term exam.
- Maths marks in the 1st term = 80

Maths marks in the 2nd term = 85

Thus, increase in Maths marks in the second term = $85 - 80 = 5$

- Govinda's marks in Maths were more than 80 in the second term.

Solution 2:

- The number of literate women is the greatest in village C.
- The numbers of literate and illiterate women are the same in village B.
- The number of illiterate women in village C is 400.
- Number of literate women in village D = 500

Number of illiterate women in village D = 700

Thus, in village D, the number of illiterate women – number of literate women = $700 - 500 = 200$

Hence, in village D, the number of illiterate women exceeds the number of literate women by 200.

- The number of literate women is the least in village D.

Solution 3:

1. School No. 3 planted the same number of trees every year.
2. School No. 2 planted more trees in 2007-08 than in 2006-07.
3. School No. 1 planted more trees in 2006-07 than in 2007-08.

Solution 4:

- The number of people getting the benefit of the EGS in village R

= Number of men getting the benefit in village R + Number of women getting the benefit in village R

= $170 + 50$

= 220

- Village Q has the most women beneficiaries.
- In village S, there are 80 men beneficiaries and 120 women beneficiaries
- Village P has more men beneficiaries.

Solution 5:

- Nikhil's and Sagar's scores were same in match II.
- Sagar scored more in match III.
- Number of runs Nikhil scored more than Sagar in the first match

= Number of runs scored by Nikhil in the first match – Number of runs scored by Sagar in the first match

$$= 35 - 25$$

$$= 10 \text{ runs}$$

- In match II and match IV, Sagar had equal scores.
- In match II and match III, Nikhil had equal scores.

Solution 6:

1. The number of voters registered at the centre at Jawahar Vidyalaya is 700 and the actual number of votes cast is 450.
2. The City High School has the largest number of registered voters.
3. The highest number of votes were cast at the Remand Home polling center
4. The number of votes cast at School No. 5 is 500.

Solution 7:

1. The fourth (IV) adult literacy class has the largest number of learners.
2. The centres I and V have equal number of learners on the rolls.
3. Centres II, III and V have the same number of adult literates.
4. All the adults enrolled achieved literacy at centre III.