Worksheet

1. Following are the heights (in cm) of 30 students of a class:

   149, 138, 136, 150, 147, 133, 149, 136, 149, 147, 133, 135, 149, 149, 136, 133, 138, 138, 132, 136, 132, 149, 150, 138, 136, 149, 147, 150, 149, 133

   Prepare a frequency table for the above data and answer the following questions:

   a. How many students have the maximum height?

   b. How many students are shorter than 147 cm?

   c. What is the range of the given data?

2. Following are the number of members in 30 families in a housing complex:

   3, 4, 4, 5, 3, 4, 3, 5, 3, 4, 4, 5, 4, 3, 2, 3, 2, 3, 2, 4, 2, 3, 4, 2, 5, 3, 2, 3, 4, 3

   Prepare a frequency distribution table for the above data and answer the following:

   a. What is the size of the smallest family? How many families are of the smallest size?

   b. What is the size of the largest family? How many families are of the largest size?

   c. What is the size of the most common family?

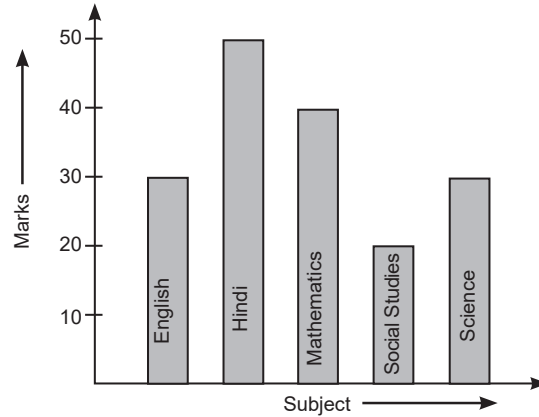3. Score of 40 students in a mathematics test is as below:

90	75	60	45	77	60	88	67	70	80
35	69	75	49	37	50	55	92	98	99
45	50	73	80	85	90	92	97	49	67
50	55	69	75	84	93	87	88	65	73

   Prepare a frequency table and hence represent the data by histogram.

   Now answer the following:

   a. How many students got 85 or above marks?

   b. How many students got less than 45 marks?

   c. What is the class size?

4. Read the graph carefully and answer the following questions.

   a. What information does the bar graph give?

   b. In which subject, the student is very weak?

   c. In which subject, the student is very good?

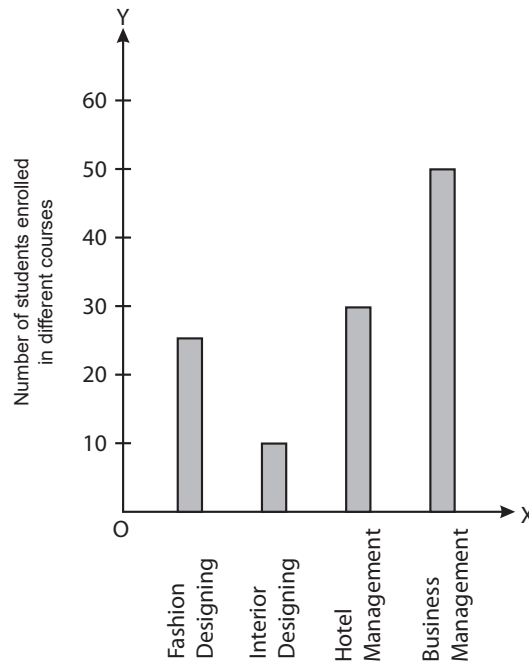d. What is the total score of the student?

5. The following table shows the favourite kind of movies of students of a school.

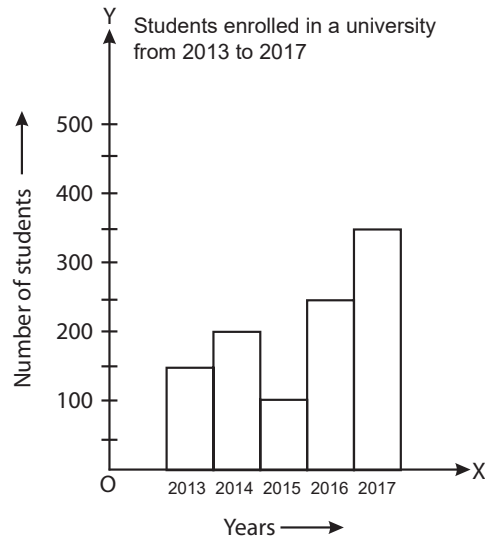| Drama	Comedy	Romance	Science and fiction	Action
150	120	130	110	10

Draw a pie chart to represent the above data.

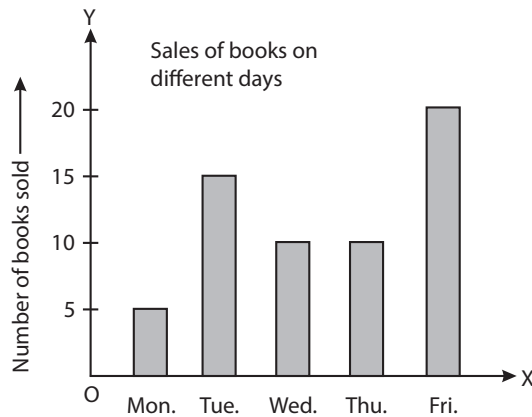6. Look at the bar graph and answer the following questions:

a. Arrange the courses enrolled from highest to lowest according to the number of students.

b. Which course has the most students enrolled in it?

c. How many more students enrolled in fashion designing than in interior designing?

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7. a. The following histogram shows the number of students enrolled in a university in each year from 2013 to 2017. Find the number of students enrolled in the year 2016 and 2017.
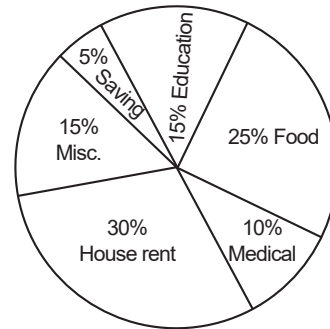
Students enrolled in a university from 2013 to 2017

Number of students

500
400
300
200
100

2013 2014 2015 2016 2017

Years

b. The bar graph depicts the number of books sold in a book store from Monday to Friday.

Sales of books on different days

Number of books sold

20
15
10
5

Mon. Tue. Wed. Thu. Fri.

Look at the above bar graph and answer the questions below.

i. Which day the sale was maximum?

ii. Which day the sale was minimum?

iii. Total number of books sold in the week.

8. Expenditure (in %) on various items and saving of a family during a month is expressed in the pie chart given alongside:

    a. If the monthly saving of the family is ₹ 3000, what is the total income?

    b. How much money is spent on food?

    c. On which item, the expenditure is maximum?

    d. What is the difference between money spent on education and money spent on medicines?

Answers to Worksheet

1. a. 3   b. 16   c. 18

2.

Number of members	2	3	4	5
Frequency	6	11	9	4

    a. 2 ; 6   b. 5 ; 4   c. 3

3.

Class interval	35–45	45–55	55–65	65–75	75–85	85–95	95–105
Frequency	2	7	4	8	7	9	3

    a. 12   b. 2   c. 10

4. a. Marks secured by a student in different subjects

    b. Social studies   c. Hindi   d. 170

6. a. Business management, Hotel management, Fashion designing, Interior designing

    b. Business management   c. 15

7. a. 600   b. i. Friday   ii. Monday   iii. 60

8. a. ₹ 60,000   b. ₹ 15,000   c. House rent   d. ₹ 3000