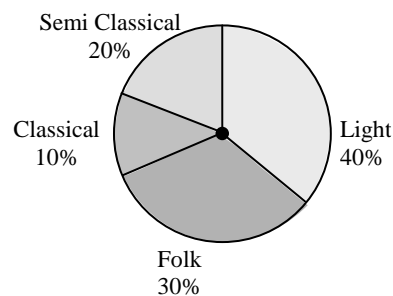# DATA HANDLING

PIE CHART

EXERCISE

Q. 1 A survey was made to find the type of music that a certain group of young people liked in a city. Adjoining pie chart shows the findings of this survey.

Semi Classical 20%
Classical 10%
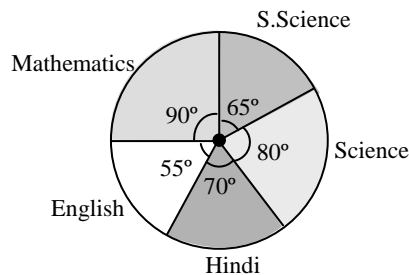Light 40%
Folk 30%

From this pie chart answer the following :

(i) If 20 people liked classical music, how many young people were surveyed ?

(ii) Which type of music is liked by the maximum number of people ?

(iii) If a cassette company were to make 1000 CD's, how many of each type would they make ?

Q.2 A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer.

Season		No. of votes
Summer		90
Rainy		120
Winter		150

(i)   Which season got the most votes ?

(ii)   Find the central angle of each sector.

(iii) Draw a pie chart to show this information.

Q.3   The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science. If the total marks obtained by the students were 540, answer the following questions.

(i)   In which subject did the student score 105 marks ?

(**Hint** : for 540 marks, the central angle $= 360^\circ$. So, for 105 marks, what is the central angle ?)

(ii)   How many more marks were obtained by the student in Mathematics than in Hindi ?

(iii) Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi. (**Hint** : Just study the central angles)
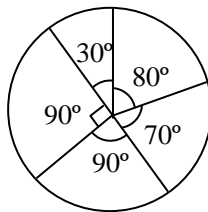
Q.4   The number of students in a hostel, speaking different languages is given below. Display the data in a pie chart.

Language	Number of students
Hindi	40
English	12
Marathi	9
Tamil	7
Bengali	4
Total	72

Q.5   Read the following pie chart and answer the questions that follow :

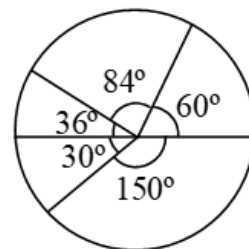| Game	Angle
Cricket	90º
Football	70º
Table Tennis	80º
Tennis	30º
Hockey	90º

If the school spent Rs 72000 on sports,

(a)   how much did they spend on cricket ?

(b)   how much more was spent on table tennis than tennis ?
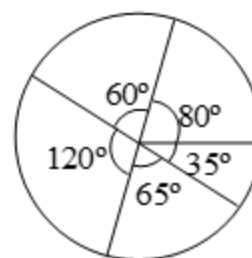
(c)   how much did they spend on football ?

Q.6   The marks in different subjects of a student of Class VIII are given in the pie chart. If the total marks is 600, find his marks in each subject.

Subject	Angle
Maths	150º
English	60º
Science	84º
Social Science	36º
Language	30º

Q.7   A survey was conducted on the expenses that an average man incurs through the year. Read the given pie chart and answer the questions given

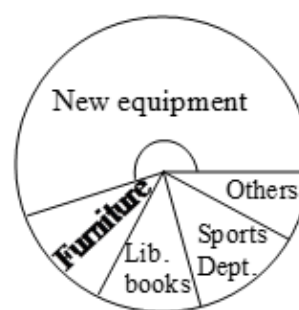| Item	Angle
Food	80º
Clothing	60º
Others	120º
Education	65º
Rent	35º

If his annual income is Rs 360000, find

(a)   the amount spent on Education.

(b)   how much did he spend on food ?

(c)   whether the amount spent on others is more or less than that spent on food and clothing and by how much ?

Q.8   The following pie chart represents the expenses of a school in the month of June. Calculate the central angle in each case.
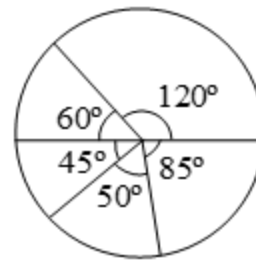
Item	Expenses (Rs)
New equipment	40000
Furniture	6000
Lib. books	10000
Sports	12000
Others	4000

Q.9   From the pie chart given below, find the amount spent on different sports in a club for the year. The total expense is Rs 720000.
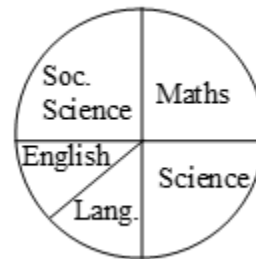
Item	Angle

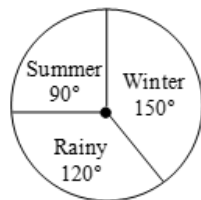| Athletic team	120º
Football team	85º
Volleyball team	50º
Cricket team	45º
Hockey team	60º

Q. 10 The pie chart depicts the marks obtained by a student in his final exams. Write what percentage he got in each subject.

Item	Angle
Maths	90º
Science	90º
Lang.	50º
English	40º
Soc. Science	90º

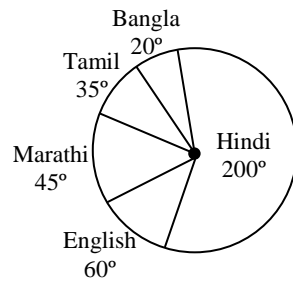## ANSWER KEY

1. (i)   200

    (ii)   Light music

    (iii)   Classical – 100, Semi classical – 200, Light – 400, Folk - 300

2. (i)   Winter

    (ii)   Winter – 150º, Rainy – 120º, Summer – 90º

    (iii)

3. (i)   Hindi   (ii)   30 marks   (iii)   Yes

4.

5.   (a)   Rs 18000   (b)   Rs 10000   (c)   140000

6.   Maths = 250, English = 100,Science = 140, SST = 60, Language = 50

7.   (a)   Education = Rs 65000

      (b)   Food = Rs 80000

      (c)   more by Rs 80000

8.   New equipment = 200º, Furniture = 30º, Library books = 50º, Sports = 60º,

     Other = 20º

9.   Athletic = Rs 240000, Football = Rs 170000, Volleyball = Rs 100000,

     Cricket = Rs 90000, Hockey = Rs 120000

10.   SST = 25%, Maths = 25%, English = 11.11%, Sc = 25%, Language = 13.88 %