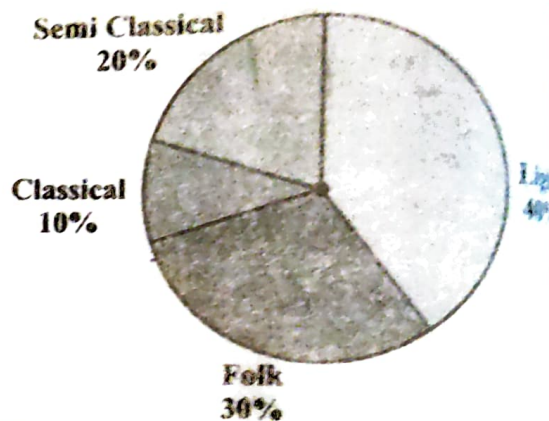


## EXERCISE 4.1

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.

From this pie chart answer the following:

- If 20 people liked classical music, how many young people were surveyed?
- Which type of music is liked by the maximum number of people?
- If a cassette company were to make 1000 CD's, how many of each type would they make?



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

- Which season got the most votes?
- Find the central angle of each sector.
- Draw a pie chart to show this information.

Season		No. of votes
Summer		90
Rainy		120
Winter		150

3. Draw a pie chart showing the following information. The table shows the colour preferred by a group of people.

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36

Find the proportion of each sector. For example, Blue is  $\frac{18}{36} = \frac{1}{2}$ ; Green is  $\frac{9}{36} = \frac{1}{4}$  and so on. Use this to find the corresponding angles.

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

2. Meteorological Department predicts weather by observing trends from the data over many years in the past.

## EXERCISE 4.2

1. List the outcomes you can see in these experiments.

(a) Spinning a wheel



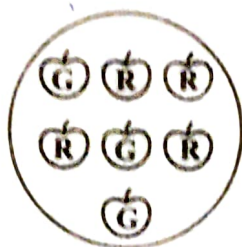
(b) Tossing two coins together

2. When a die is thrown, list the outcomes of an event of getting

- (i) (a) a prime number (b) not a prime number.  
(ii) (a) a number greater than 5 (b) a number not greater than 5.

3. Find the

- (a) Probability of the pointer stopping on D in (Question 1-(a))?  $\frac{1}{4}$   
(b) Probability of getting an ace from a well shuffled deck of 52 playing cards?  $\frac{4}{52}$   
(c) Probability of getting a red apple. (See figure below)  $\frac{4}{7}$



4. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of .
- (i) getting a number 6?  
(ii) getting a number less than 6?  
(iii) getting a number greater than 6?  
(iv) getting a 1-digit number?
5. If you have a spinning wheel with 3 green sectors, 1 blue sector and 1 red sector, what is the probability of getting a green sector? What is the probability of getting a non blue sector?
6. Find the probabilities of the events given in Question 2.

## WHAT HAVE WE DISCUSSED?

- In order to draw meaningful inferences from any data, we need to organise the data systematically.
- Data can also be presented using **circle graph** or **pie chart**. A circle graph shows the relationship between a whole and its part.