



SNS COLLEGE OF TECHNOLOGY
COIMBATORE-35

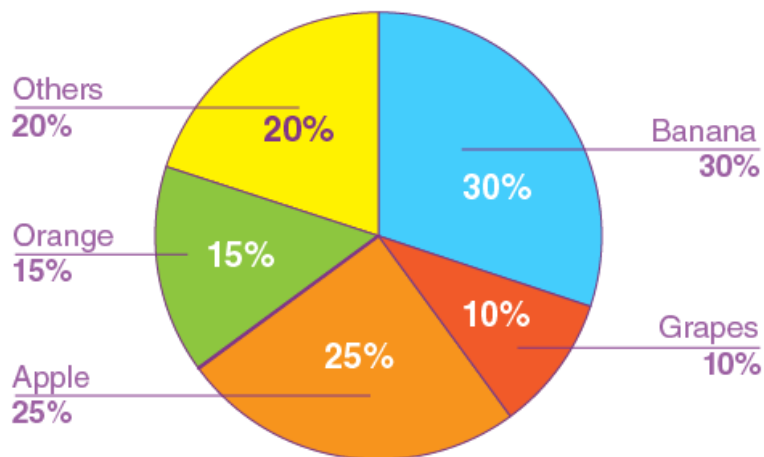


**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
MACHINE LEARNING
19GET275 - VQAR-1**

Try to solve the following pie chart questions and check your answers with the solution given here.

Question 1:

The below pie chart shows the sale of different fruits in a day for a shop:



Answer the following questions based on the pie chart:

- If a total of 1200 kg of fruits were sold in a day, calculate the amount of bananas sold (in kg).
- Find the difference between sales of grapes and oranges.
- Calculate the central angle for others.

(i) Total amount of fruits sold = 1200 kg

A.CATHERINE/AP/AIML

Percentage of banana sold = 30%

Amount of banana sold = $1200 \times (30/100) = 360$ kg

(ii) Amount of grapes sold = $1200 \times (10/100) = 120$ kg

Amount of oranges sold = $1200 \times (15/100) = 180$ kg

Difference = $180 - 120 = 60$ kg

(iii) Amount of other fruits sold = $1200 \times 20 = 240$ kg

Central angle = $240/1200 \times 360^\circ = 72^\circ$.

There are 60 students in a class, following table shows the data for of their result

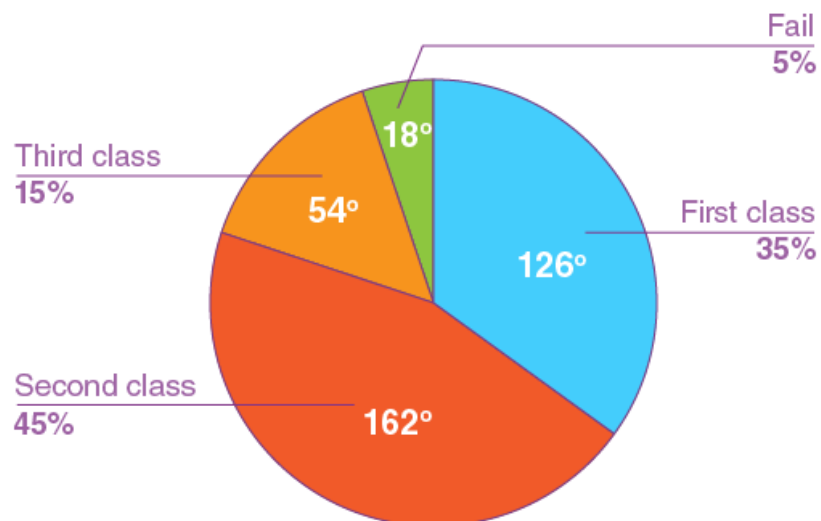
Result	First Class	Second Class	Third Class	Fail
Number of students	35%	45%	15%	5%

Draw a pie chart for this information.

Solution:

Result	Percentage of students	Number of students	Central angle
First class	35	$60 \times 35/100 = 21$	$21/60 \times 360^\circ = 126^\circ$
Second class	45	$60 \times 45/100 = 27$	$27/60 \times 360^\circ = 162^\circ$
Third class	15	$60 \times 15/100 = 9$	$9/60 \times 360 = 54^\circ$
Fail	5	$60 \times 5/100 = 3$	$3/60 \times 360^\circ = 18^\circ$
Total	100	60	360°

The pie chart is –



Consumers were polled about their favourite ice cream flavours in a survey. Draw a bar graph for the following data:

Flavour of Icecream	Frequency
Vanilla	16
Strawberry	5
Chocolate	12
Mint Chocolate	3
Others	6

Solution:

From the given data, we can observe the following:

Generally, we can draw the bar graph using the frequencies of different flavours. They are:

The frequency of vanilla flavour – 16

The frequency of strawberry flavour – 5

The frequency of chocolate flavour – 12

The frequency of mint chocolate – 3

The frequency of other ice cream flavours – 6.

Now, draw the bar graph representing the different ice cream flavours on X-axis and frequencies on Y-axis.

Hence, the bar graph for the given data is drawn as follows:

