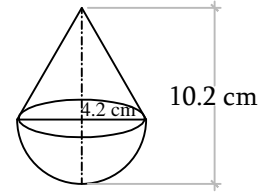


- 30) A solid wooden toy is in the shape of a right circular cone mounted on a hemisphere . If the radius of the hemisphere is 4.2 cm and the total height of the toy is 10.2 cm , find the volume of the wooden toy.



- 31) The daily maximum temperature ( in degree Celsius ) recorded in a certain city during the month of November are as follows.

25.8 , 20.9 , 24.5 , 23.1 , 25.6 , 22.4 , 20.7 , 21.5 , 21.8 , 22.7 , 20.7 , 22.8 , 20.6 , 22 , 20.9 , 23.9 , 22.3 , 24.7 , 22.7 , 23.1 , 23.8 , 22.8 , 24.6 , 22.9 , 23.4 , 21.7 , 21.1 , 21.3 , 20.5 , 22.7

Represent this information in the form of a Frequency distribution table with class size  $1^{\circ}\text{C}$  . Also draw a histogram for the same.

- 32) Following is the distribution of ages ( in years ) of two groups of teachers in a school.

age (in years)		55 - 60	50 - 55	45 - 50	40 - 45	35 - 40	30 - 35	25 - 30	20 - 25
No. of teachers	group A	1	5	7	12	11	8	10	4
	group B	2	7	9	11	10	8	6	5

Represent the above data by means of a frequency polygon for each group on the same axes .

- 33) Draw a histogram to represent the following frequency distribution

daily wages ( in Riyals)	10 - 15	15 - 20	20 - 25	25 - 30	30 - 40	40 - 60	60 - 80
No. of workers	7	10	27	15	12	12	8

- 34) Find the missing frequency 'k' of the following data if its mean is 16 .

x	5	10	15	20	25
f	2	8	k	10	5

- 35) The mean of 5 nos. is 28. If one of the nos. is excluded , the mean gets reduced by 2 . Find the excluded number .

- 36) The weight of 10 students ( in Kg.) are 55 , 51 , 60 , 52 , 42 , 38 , 49 , 63 , 47 and 35 . Find the median weight . If the weight 63 Kg. is replaced by 36 Kg. , find the new median weight .

- 37) For what value of p , the mode of the following data is 5 ?

1 , 2 , 5 , 7 , 5 , 2 , 7 , 5 , 9 , 2 , 3 , p , 11

- 38) Arrange the following nos. in a frequency distribution table and then find the mean , median and mode of the data .

7 , 4 , 3 , 5 , 6 , 3 , 3 , 2 , 4 , 3 , 4 , 3 , 3 , 4 , 4 , 3 , 2 , 2 , 4 , 3 , 5 , 4 , 3 , 4 , 3 , 4 , 3 , 1 , 2 , 3

- 39) A bag contains cards numbered from 1 to 100 . A card is drawn at random from the bag. Find the probability that the card bears a number which is a

i) multiple of 5      ii) multiple of 6      iii) multiple of both 5 & 6