

17. Draw a bar graph for the following frequency distribution table.

Subject	No. of Students
Art	7
Maths	5
Science	6
English	3
Hindi	4

18. 6 pipes are required to fill a tank in 1 hour 20 minutes. How long will it take if only 5 pipes of the same type are used?
19. Draw the graph (linear) for the following table with suitable scales on axis.

No. of Apples	1	2	3	4	5
Cost (in rupees)	5	10	15	20	25

20. Find the area of the rhombus whose side is 6 cm and altitude is 4 cm. If one of its diagonal is 8 cm find the other diagonal.

Section - D

21. By selling a cooler for Rs. 6800/- a shopkeeper had a loss of 15%. For what price should he sell it to get a profit of 10%?
22. Using identities evaluate : a) 103×104
b) 95×105
23. Name the quadrant in which the following points lie without plotting on the graph.
a) (7, -2) b) (3, 4) c) (-3, 7) d) (-4, -4)
24. A roller 150cm long has a diameter of 70cm takes 750 revolutions to level a playground. Find the area of the playground in m^2 . ($\pi = 22/7$)
25. Find the amount and compound interest on Rs. 90000/- at the rate of 10% per annum compounded annually for 3 years.
26. In a hostel there was a food provision for 30 students for 20 days. But due to holidays some students left and the food provision lasted for 30 days. Find the number of students left.
27. a) Add : $4y(3y^2 + 5y - 7)$ and $2(y^3 - 4y^2 + 5)$
b) Subtract : $3pq(p - q)$ from $2pq(p+q)$
28. A farmer decided to give a rectangle plot of land to the panchayat to make a hospital for the poor. If the length of the plot is 20m more than the breadth and the perimeter is 1500m, find the length and the breadth of the plot and also calculate its area.
What is the value possessed by the farmer in doing so?
29. Factorise : a) $m^4 - 256$
b) $y^2 - 7y + 12$
30. Choice of food for a group of people is given below. Draw a pie chart for this data.

Choice of Food	No. of People
North Indian	30
South Indian	40
Chinese	25
Others	25
Total	120

31. Weight of 35 persons are given below. Prepare a frequency distribution table taking equal class size and one of the class as 40 – 45.

43, 52, 50, 51, 47, 62, 47, 44, 48, 54,
40, 55, 50, 60, 62, 63, 53, 58, 56, 55,
40, 60, 48, 58, 56, 53, 50, 53, 42, 55,
52, 48, 46, 45, 54.