# **INTRODUCTION TO GRAPHS**

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### EXERCISE

- **Q.1** In the given line graph, weight of a child according to age is given. Give answers of the following questions.
- (i) What is the weight of child when age is 3 years.
- (ii) What is the weight of child when age is 1 year 6 months and 4 years 6 months.
- (iii) What is the age of child when weight is (1) 6 kg (2) 12 kg
- (iv) The increase weight between 6 years to 7 years



- 1 cm = 2 kg (y-axis)
- **Q.2** The temperature for 6 months of a town as follows :

Month	Jan.	Feb.	Mar.	April	Мау	June
Temp.(in <sup>o</sup> C)	15	18	24	32	39	40

Draw a line graph to represent the above information.

**Q.3** Draw the line graph to represent the given information.

Age (in years)	10	12	14	16	18	20
Weight (in kg)	25	28	33	41	45	56

**Q.4** Draw the histogram for the following information and find population of the year 1995.

Year	1970	1980	1990	2000	2010
Population	16	20	23	27	32
(in laks)					

**Q.5** The number of workers in a factory as follows :

Year	1998	2000	2002	2004	2006	2008
Workers	220	260	340	480	600	800

Draw a histogram for the above information then find

- (i) In which year, the number of workers is 300
- (ii) Number of workers in year 2003
- **Q.6** The temperature of a patient as follows

Time	8am	10am	12noon	2pm	8pm	9pm
Temp. in <sup>0</sup> C <sub>p</sub>	37°	37.2°	37.8°	38°	39.2°	38.5°

Draw line graph for the above information and find the temperature at 9 am and 7 pm.

- **Q.7** According to the given figure give the answers of the following questions.
- (i) Maximum expenditure on which quantity?
- (ii) Minimum expenditure on which quantity?
- (iii) If total expenditure is  $\vdash$  270000 then find the expenditure on 'A'.
- **Q.8** The number of students in a school for classes 6, 7, 8, 9 and 10 are as follows :

Class	6	7	8	9	10
Students	216	156	136	132	80

Draw a pie chart to represent the above data.

**Q.9** Draw pie chart for above information.

Subject	Hindi	Maths	Science	Eng.	S.ST.
Marks	140	180	160	126	114

**Q.10** The monthly expenditure of a man are as follows.

Items,	Food	Education	House rent	Entertainment	Others
Expendi-ture (%)	40%	30%	15%	10%	5%

Draw circle graph for above information.

### **ANSWER KEY**

(i) 5 kg.
(ii) 2 years 6 months, 6 years
(iv) 2 kg
25 lak
(i) 2001
(ii) 410



6.	37.1°C	& 38°C
0.	0	

- 7. (i) 'A' (ii) 'B' (iii) j-82500
- **9.** Central angle : 70°, 90°, 80°, 63°, 57° respectively.
- **10.** Angle at centre are 144°, 108°, 54°, 36°, 18° respectively.