EXERCISE

Q.1 Locate the following points on the graph paper A(–3, 4), B(4, 0), C(–5, –3), D(–4, –5), E(0, 5), F(0, –4), G(0, 2), H(–3, 0).

Q.2 Mark the following points and join them. Give name and other information about the figure.
(i) (–3, 0), (–3, 1), (–3, 2), (–3, 5), (–3, –2)
(ii) (5, 2), (3, 2), (0, 2), (–3, 2), (–1, 2)
(iii) (2, –2), (8, 4), (5, 7), (–1, 1)
(iv) (1, –2), (3, 6), (5, 10), (3, 2)
(v) (3, 0), (6, 4), (–1, 3)

Q.3 Find the distance of the following points from both x and y axis (0, 3), (5, –2), (–3, 4), (7, 3), (8, 17), (15, 3), (7, 7).

Q.4 Find the distance of the following points from origin (3, 4), (1, 1), (–5, –12), (9, 40).
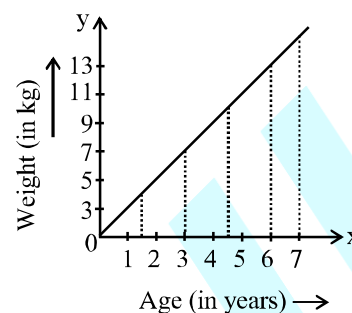
Q.5 Find the distance between
(i) A(–5, 0) and B(7, 0)
(ii) P(0, 3) and Q(0, –2)

Q.6 Locate the following points on graph paper by taking suitable scale
(i) A(15, 25) (ii) B(15, –30)
(iii) C(–35, 25) (iv) D(–15, –20)
(v) E(–15, 35) (vi) F(25, 15)
(vii) G(–5, 0) (viii) H(0, 10)

Q.7 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

Scale 1 cm = 1 year (x-axis)
1 cm = 2 kg (y-axis)

Q.8 The temperature for 6 months of a town as follows :

Month	Jan.	Feb.	Mar.	April	May	June
Temp. (in °C)	15	18	24	32	39	40

Draw a line graph to represent the above information.

Q.9 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.10 Draw the histogram for the following information and find population of the year 1995.

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

Q.11 The number of workers in a factory as follows :

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

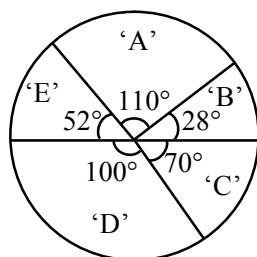Draw a histogram for the above information then find
(i) In which year, the number of workers is 300
(ii) Number of workers in year 2003

Q.12 The temperature of a patient as follows

Time	8am	10am	12noon	2pm	8pm	9pm
Temp. in ^0C_p	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.13 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 ₹ 270000 then find the expenditure on 'A'.

Q.14 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.15

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

Draw pie chart for above information.

Q.16 The monthly expenditure of a man are as follows.

Items,	Food	Education	House rent	Entertenment	Others
Expenditure (%)	40%	30%	15%	10%	5%

Draw circle graph for above information.

ANSWER KEY

EXERCISE

2. (i) Line parallel to y-axis (ii) Line parallel to x-axis. (iii) Rectangle. (iv) Parallelogram (v) right angle triangle.

3. 3, 0 ; –2, 5 ; 4, –3 ; 3, 7 ; 17, 8 ; 3, 15 ; 7, 7   **4.** $5, \sqrt{2}, 13, 41$ units.   **5.** (i) 12 (ii) 5

7. (i) 5 kg. (ii) 3 kg, 8 kg (iii) 2 years 6 months, 6 years (iv) 2 kg

10. 25 lak   **11.** (i) 2001 (ii) 410   **12.** 37.1°C & 38°C

13. (i) 'A' (ii) 'B' (iii) ₹ 82500   **15.** Central angle : 70°, 90°, 80°, 63°, 57° respectively.

16. Angle at centre are 144°, 108°, 54°, 36°, 18° respectively.