



NCERT solutions for class-8 maths Introduction to graphs Ex-15.3

Q1. Draw the graphs for the following tables of values, with suitable scales on the axes.

(a) Cost of apples

| | | | | | |
|---------------|---|----|----|----|----|
| No. of apples | 1 | 2 | 3 | 4 | 5 |
| Cost (in Rs.) | 5 | 10 | 15 | 20 | 25 |

(b) Distance travelled by a car

| | | | | |
|------------------|--------|--------|--------|--------|
| Time (in hours) | 6 a.m. | 7 a.m. | 8 a.m. | 9 a.m. |
| Distance (in km) | 40 | 80 | 120 | 160 |

(i) How much distance did the car cover during the period 7.30 a.m. to 8 a.m?

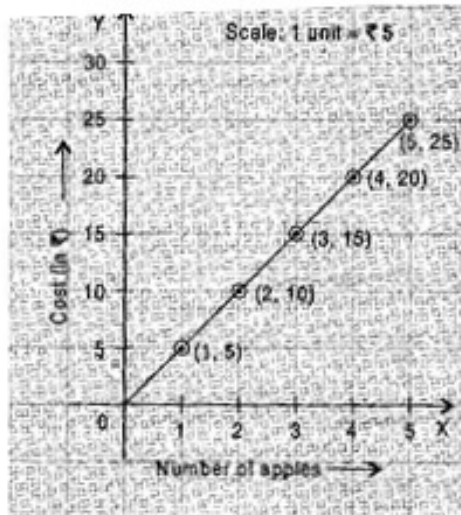
(ii) What was the time when the car had covered a distance of 100 km since it's start?

(c) Interest on deposits for a year.

| | | | | | |
|-------------------------|------|------|------|------|------|
| Deposit(inRs.) | 1000 | 2000 | 3000 | 4000 | 5000 |
| Simple Interest (inRs.) | 80 | 160 | 240 | 320 | 400 |

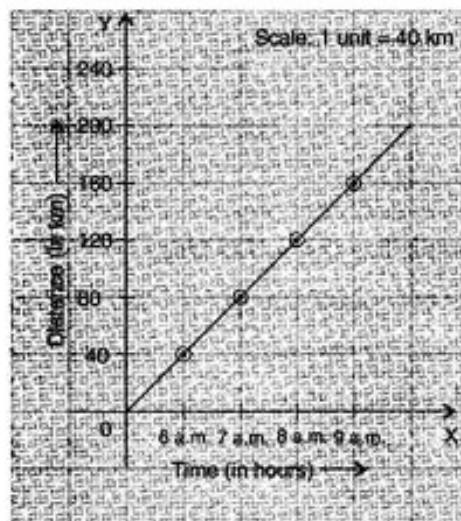
- (i) Does the graph pass through the origin?
- (ii) Use the graph to find the interest on Rs 2500 for a year.
- (iii) To get an interest of Rs 280 per year, how much money should be deposited?

Ans. (a)



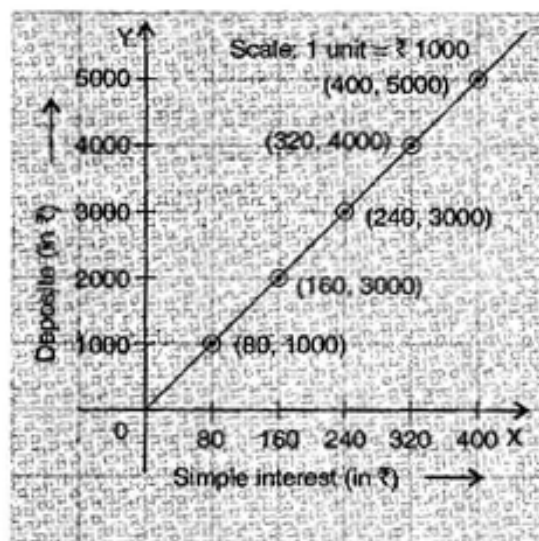
(b) (i) The car covered 20 km distance.

(ii) It was 7.30 am, when it covered 100 km distance.



(ii) Interest on ₹2500 is ₹200 for a year.

(iii) ₹3500 should be deposited for interest of ₹280.



Q2. Draw a graph for the following.

(i)

| | | | | | |
|-----------------------|---|----|-----|----|----|
| Side of Square(in cm) | 2 | 3 | 3.5 | 5 | 6 |
| Perimeter (in cm) | 8 | 12 | 14 | 20 | 24 |

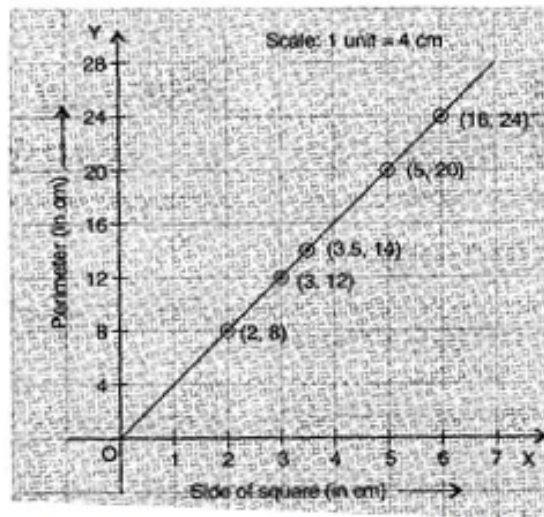
Is it a linear graph?

(ii)

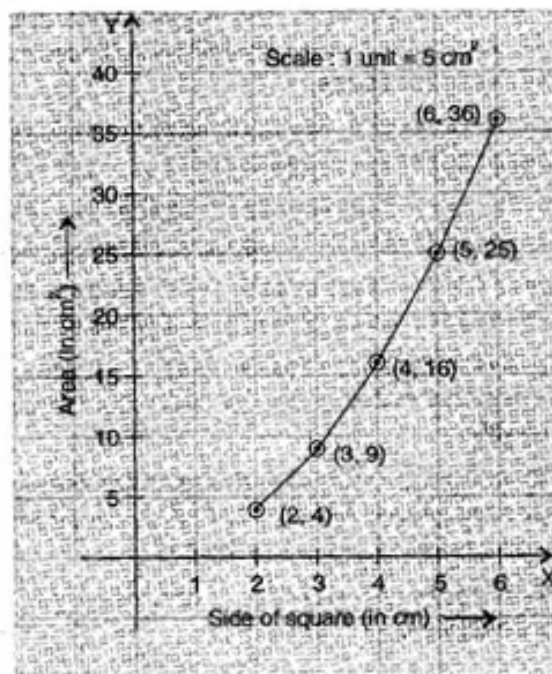
| | | | | | |
|--------------------------|---|---|----|----|----|
| Side of Square(in cm) | 2 | 3 | 4 | 5 | 6 |
| Area (in cm^2) | 4 | 9 | 16 | 25 | 36 |

Is it a linear graph?

Ans. (i) Yes, it is a linear graph.



(ii) No, it is not a linear graph because the graph does not provide a straight line.



***** END *****