EXERCISE 15.3 PAGE NO: 247

1. **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 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 its start?

(c) Interest on deposits for a year.

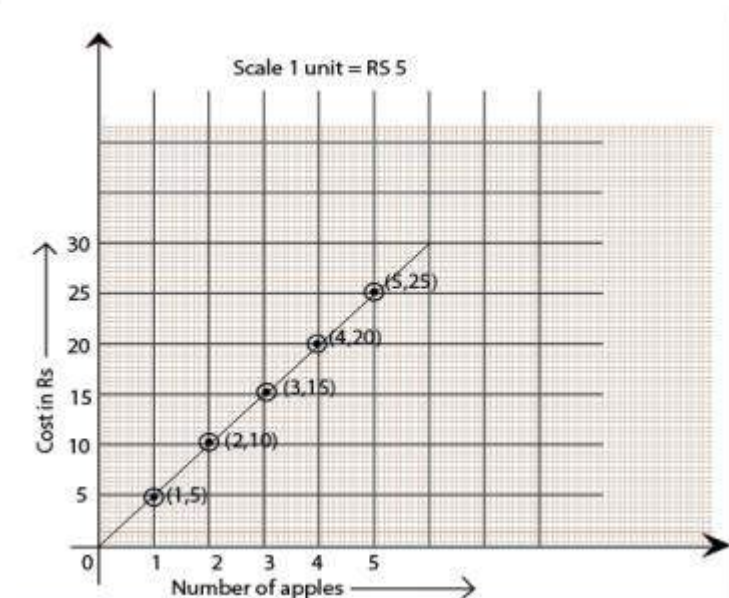| Deposit (in Rs.)	1000	2000	3000	4000	5000
Simple Interest (in Rs.)	80	160	240	320	400

(i) Does the graph pass through the origin?

(ii) Use the graph to find the interest on Rs 2500 for a year.

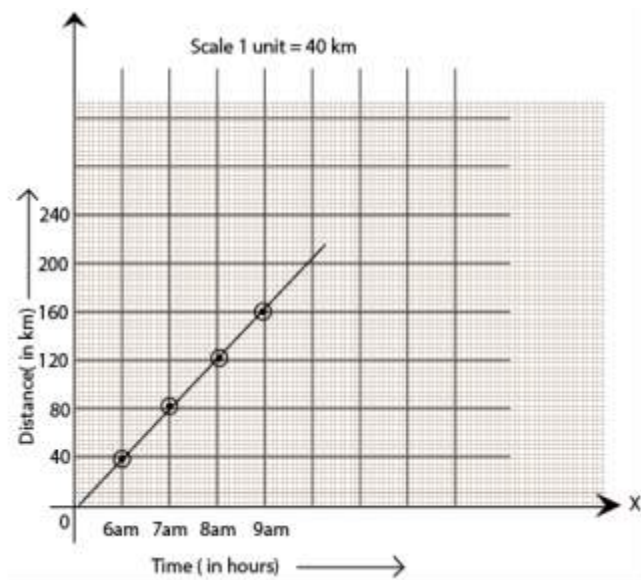**(iii) To get an interest of Rs. 280 per year, how much money should be deposited?**

Solution:

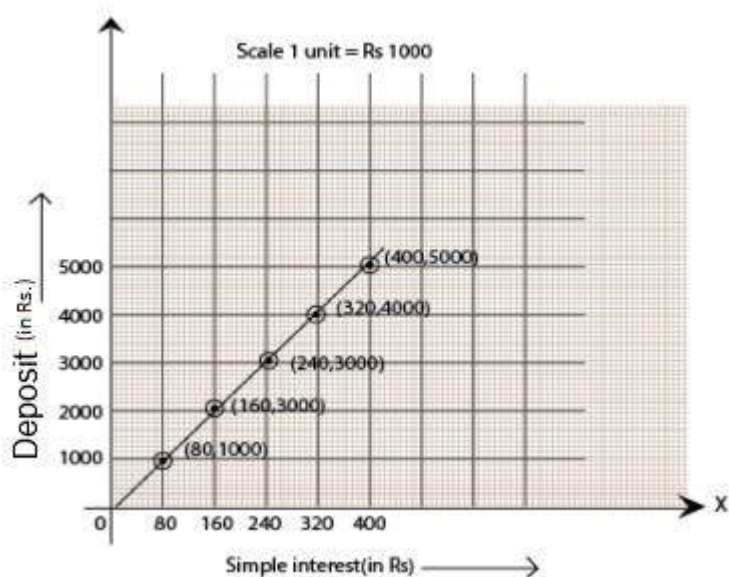Mark "number of apples" on the x-axis and "cost" on the y-axis. The graph is

(a)

Scale 1 unit = RS 5

(b) Represent the "time" on the x-axis and "distance" on the y-axis.

Scale 1 unit = 40 km

(i) The car covered a distance of 20 km.

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

(c) Represent "Deposit" on the y-axis and "simple interest" on the x-axis.

Scale 1 unit = Rs 1000

(i) Yes, the graph passes through the origin.

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

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

2. 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 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?

Solution:

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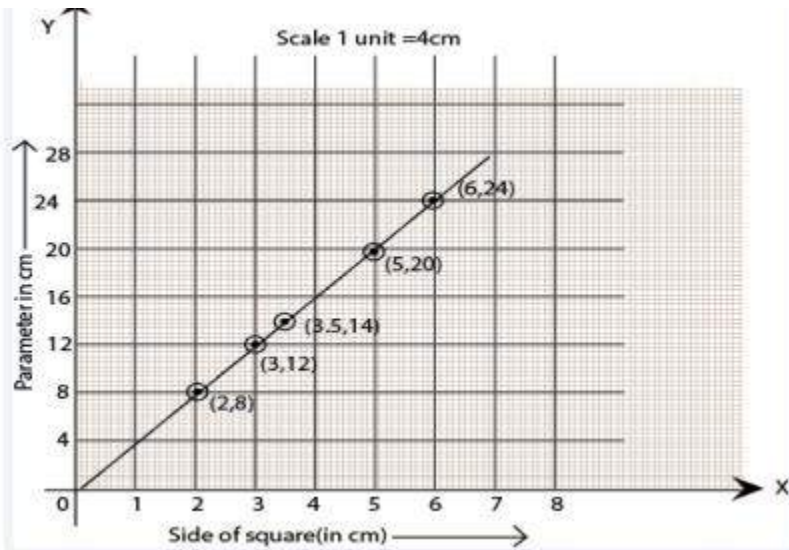
(ii) No, it is not a linear graph because the graph does not provide a straight line.