NCERT SOLUTIONS OF Graph's Exercise 3

Question 1

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

(a) Cost of apples

Number of apples	1	2	3	4	5
Cost (in ₹)	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.
Distances (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 (in ₹)	1000	2000	3000	4000	5000
Simple Interest (in ₹)	80	160	240	320	400

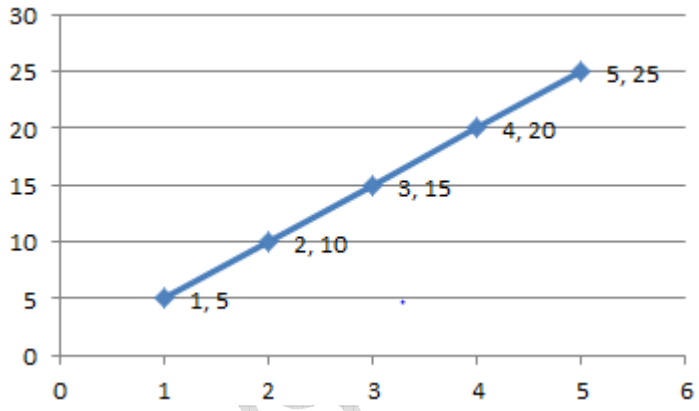
(i) Does the graph pass through the origin?

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

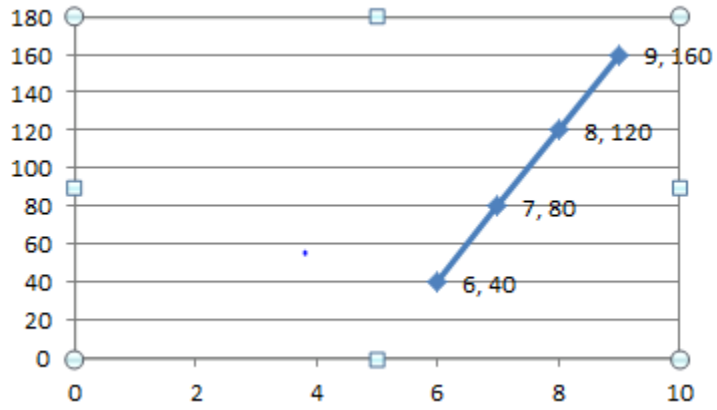
(iii) To get an interest of Rs 280 per year, how much money should be deposited?

Answer

a) We can mark number of apples on x-axis and cost of apples in y-axis



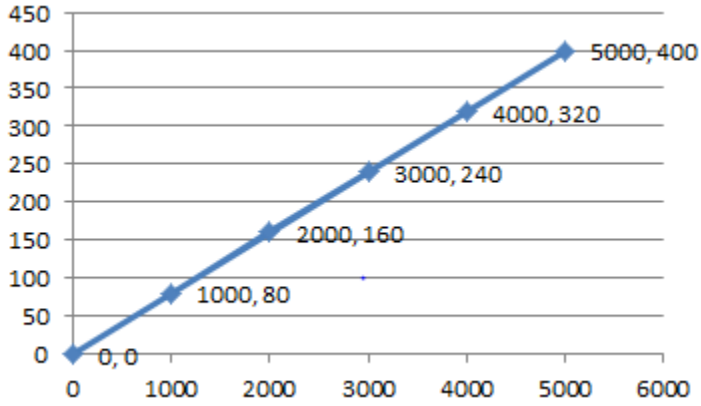
b) We can mark timing on x-axis and distance covered in y-axis



i) 20 km

ii) 7:30 AM

c)



i) Yes

ii) The mid point between 2000 and 3000 is near Rs. 200, so the interest for Rs. 2500 is Rs. 200

iii) From the graph, we can infer that Rs3500 deposit is required to earned Rs 280 interest

Question 2

Draw a graph for the following.

(i)

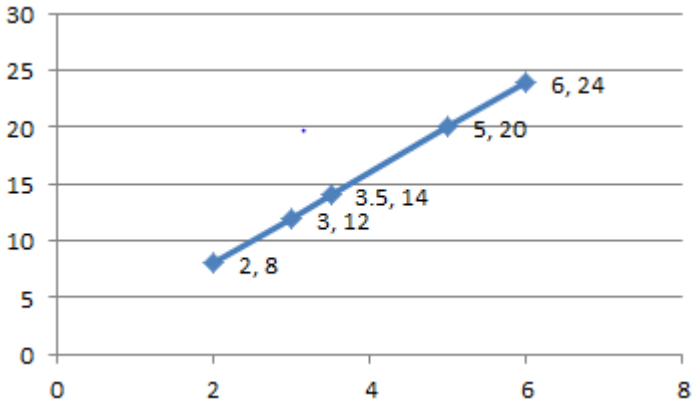
Side of square (in cm)	2	3	3.5	5	6
Perimeter (in cm)	8	12	14	20	24

(ii)

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

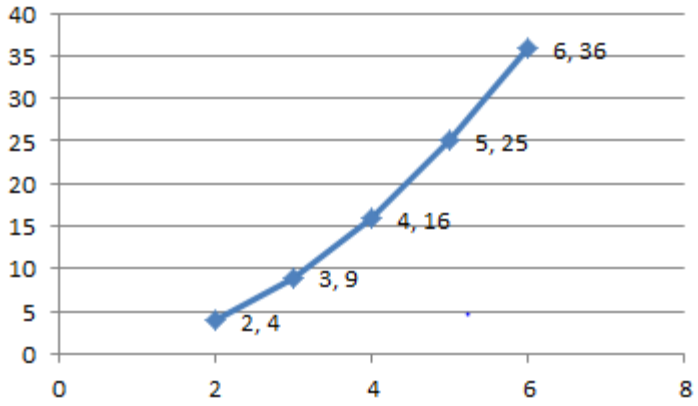
Answer

i)



This is a linear graph

ii)



This is not a linear graph