

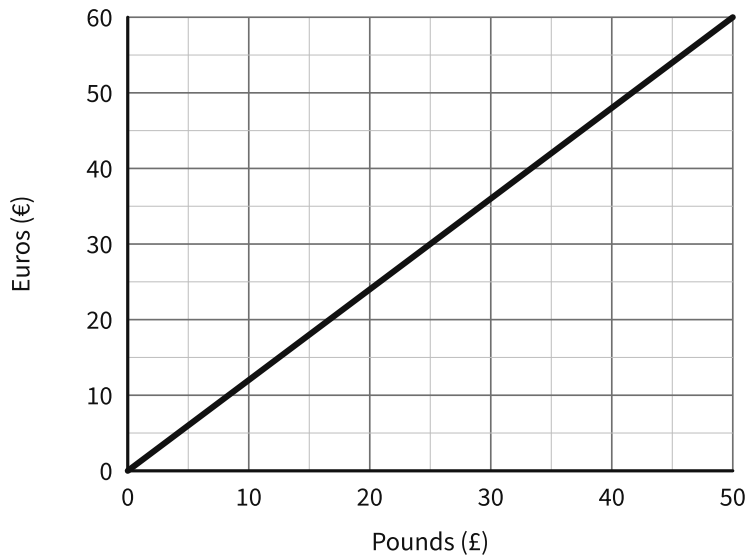
Real Life and Quadratic Graphs

ANSWERS

Ruler | 30 minutes | Total marks: 17

Name Class

1 The graph can be used to change between pounds and euros.



(a) Change £20 into euros.

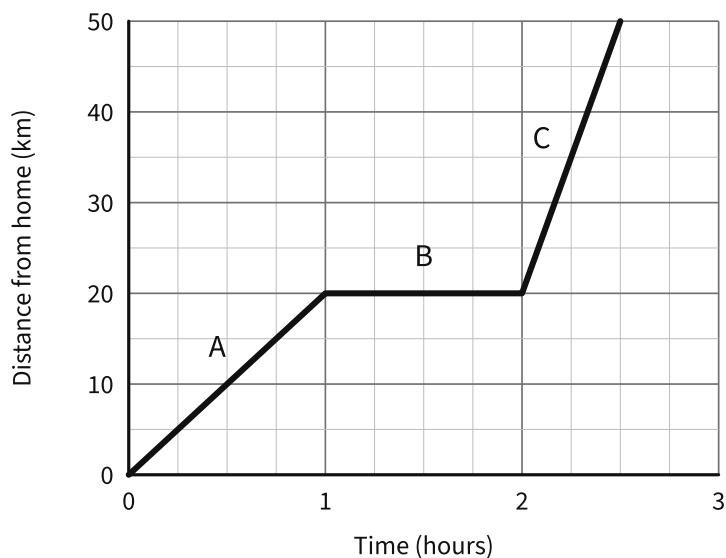
Answer € 24 (1) [1 mark]

(b) Change €60 into pounds.

Answer £ 50 (1) [1 mark]

2

The graph shows Ravi's journey. It has three parts, A, B and C.



(a) How far did Ravi travel in the first hour?

Answer 20 (1) km [1 mark]

(b) For how long did Ravi stop?

Answer 1 (1) hour [1 mark]

(c) How far from home was Ravi at the end?

Answer 50 (1) km [1 mark]

(d) In which part of the journey, A or C, was Ravi travelling faster?

Give a reason for your answer.

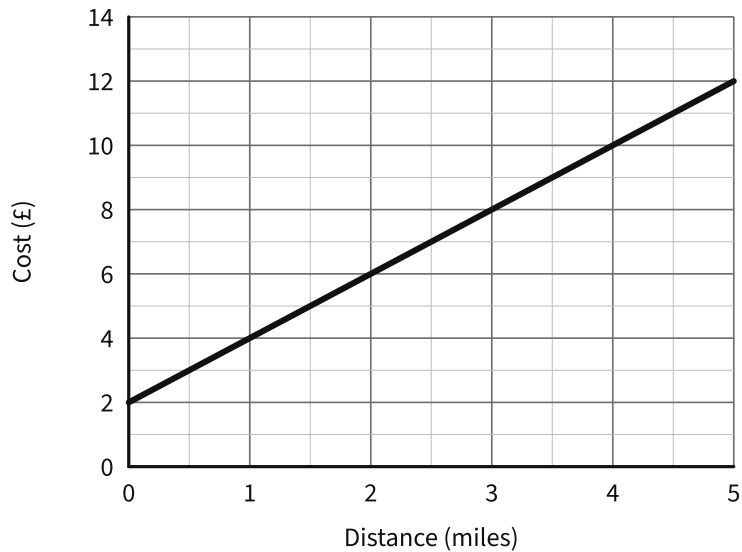
Answer C (1)

The line is steeper (1)

[2 marks]

3

The graph shows the cost of a taxi journey.



(a) How much does a journey of 3 miles cost?

Answer £ 8 (1)

[1 mark]

(b) A journey costs £10. How many miles is it?

Answer 4 (1)

miles

[1 mark]

(c) How much does the taxi charge before it has travelled any distance?

Answer £ 2 (1)

[1 mark]

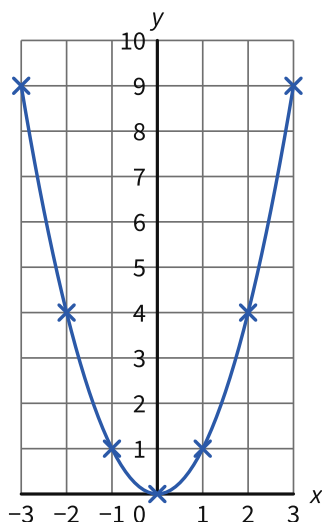
4

(a) Complete the table of values for $y = x^2$

x	-3	-2	-1	0	1	2	3
y	9	4	1	0	1	4	9 (1)(1)

[2 marks]

(b) Use your table to draw the graph.

On the grid, draw the graph of $y = x^2$

Join your points with a smooth curve.

Points plotted (1) Smooth curve through them (1) [2 marks]

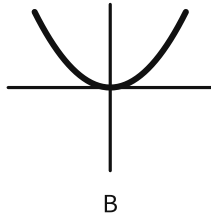
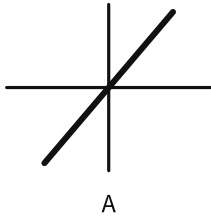
(c) Write down the coordinates of the lowest point on your graph.

Answer (0, 0) (1)

[1 mark]

5

Here are two sketch graphs.



Which graph could be $y = x^2$?

B (1)

[1 mark]

Which graph could be $y = 2x + 1$?

A (1)

[1 mark]

Question	Topic	RAG
1	I can use a conversion graph	
2	I can interpret a distance time graph	
3	I can read a real life graph	
4	I can draw the graph of $y = x^2$	
5	I can recognise a quadratic graph	