



**Bishops
Online
Tutoring**



Education Consultancy

Edexcel GCSE Mathematics

CONVERSION GRAPHS

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
- Protractor
- Compass

Instructions:

- Use a black ink pen to answer all questions
- Fill your name in the section below
- Answer the questions in the spaces provided
- Show your working out for all answers

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

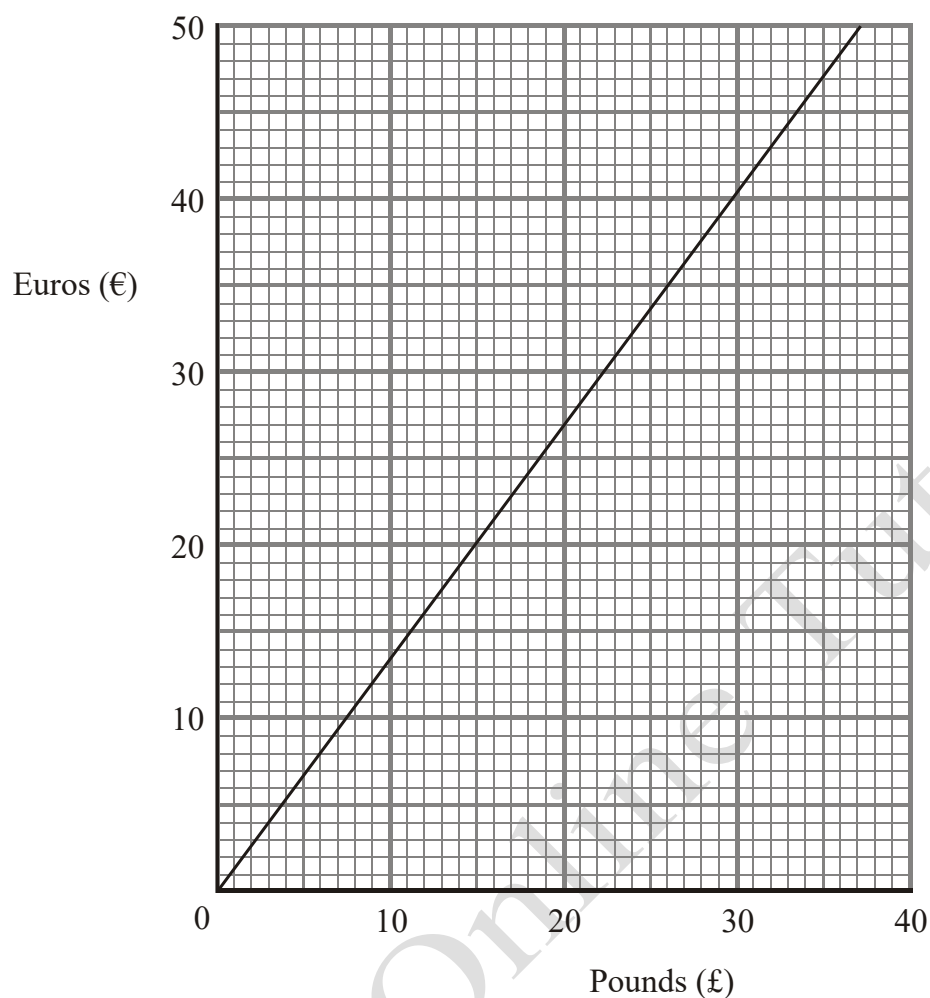
NO CALCULATOR ALLOWED

NAME:

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1.

The conversion graph can be used to change between pounds (£) and Euros (€).



- (a) Use the graph to change 30 pounds to Euros.

€

(1)

- (b) Use the graph to change 16 Euros to pounds.

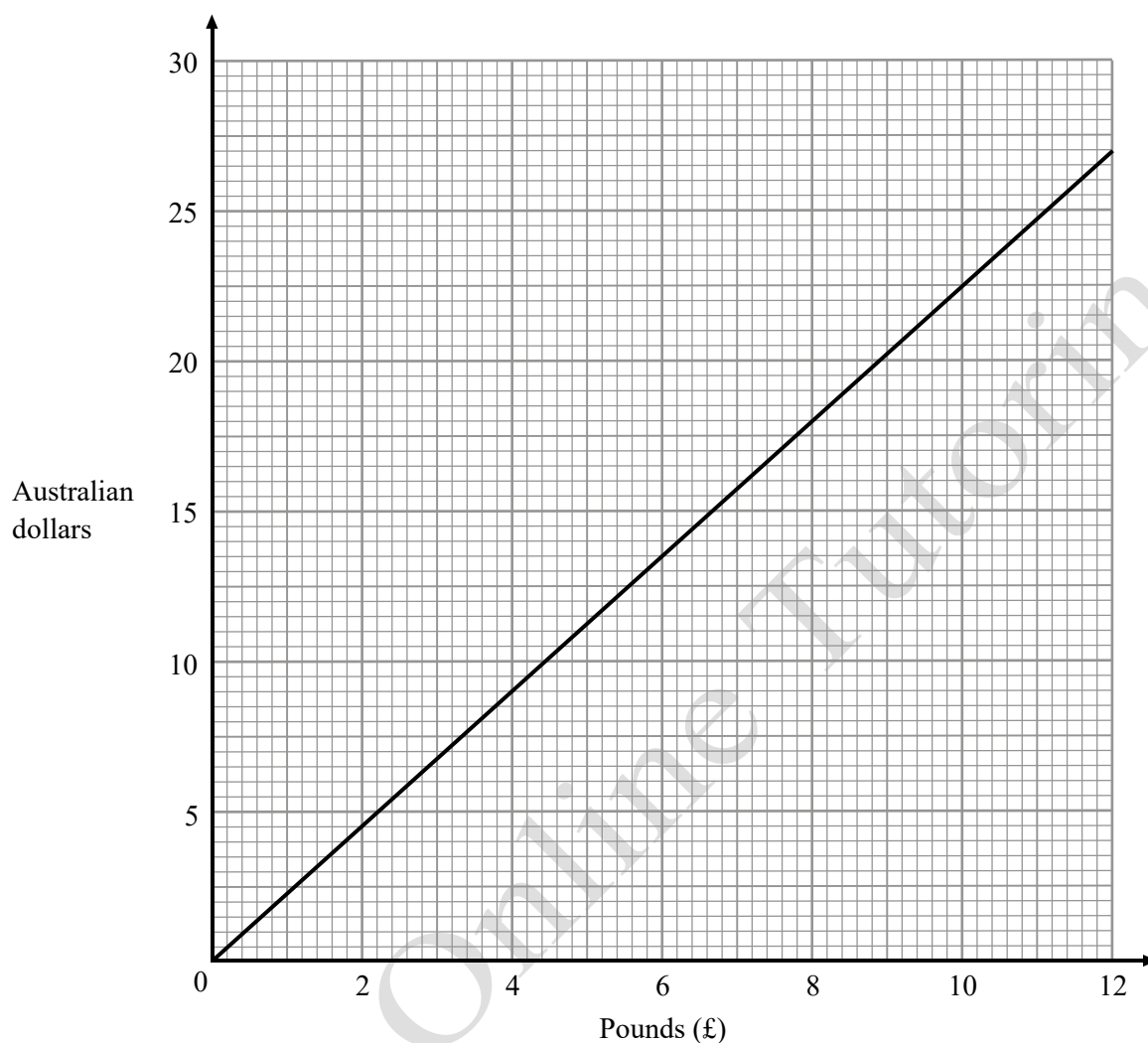
£

(1)

(Total 2 marks)

2.

Here is a conversion graph between pounds (£) and Australian dollars.



(a) Change 20 Australian dollars to pounds.

£

(1)

(b) Change £7 to Australian dollars.

..... Australian dollars

(1)

(c) Change £400 to Australian dollars.

..... Australian dollars

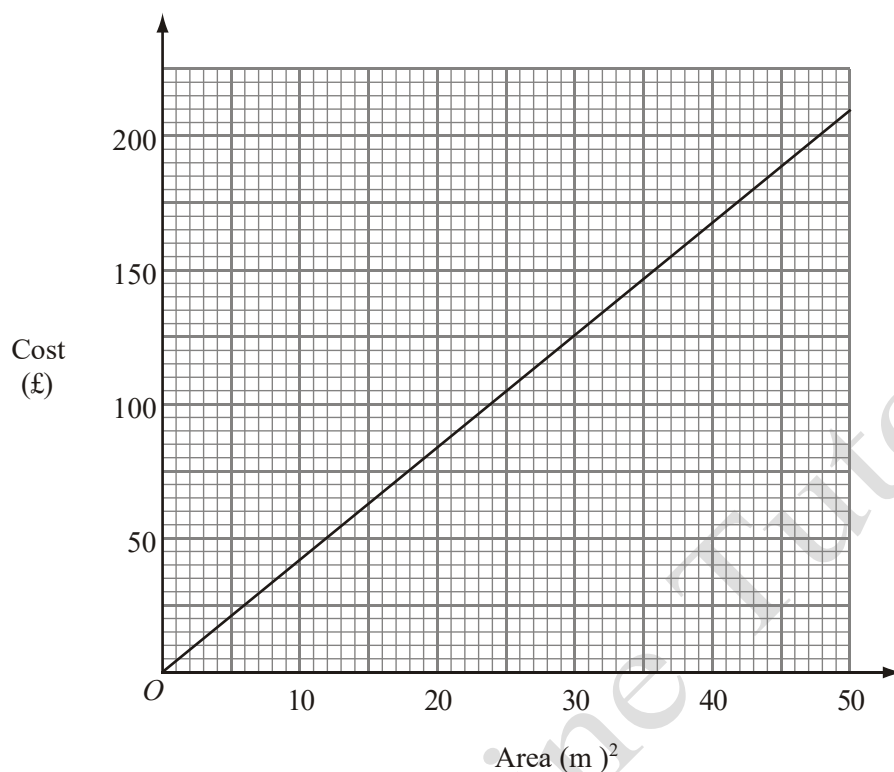
(2)

(Total 4 marks)

3.

John cleans carpets of different areas.

He uses this graph to work out the cost of cleaning a carpet.



A carpet has an area of 30 m^2 .

(a) Use the graph to find the cost of cleaning this carpet.

£

(1)

It costs £150 to clean another carpet.

(b) Use the graph to find the area of this carpet.

..... m^2

(1)

A rectangular carpet has a length of 8.6 m.

It has a width of 5 m.

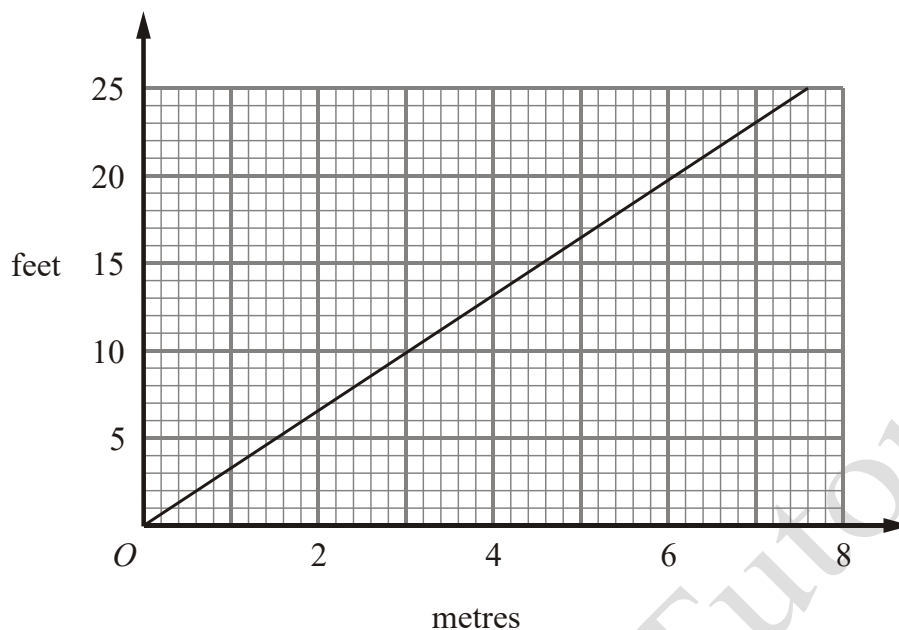
(c) Work out the cost of cleaning this carpet.

£

(3)

(Total 5 marks)

4.



This conversion graph can be used to change between metres and feet.

(a) Use the conversion graph to change 6 metres to feet.

..... feet

(1)

(b) Use the conversion graph to change 8 feet to metres.

..... metres

(1)

Robert jumps 4 metres.

James jumps 12 feet.

(c) (i) Who jumps furthest, Robert or James?

.....

(ii) How did you get your answer?

.....

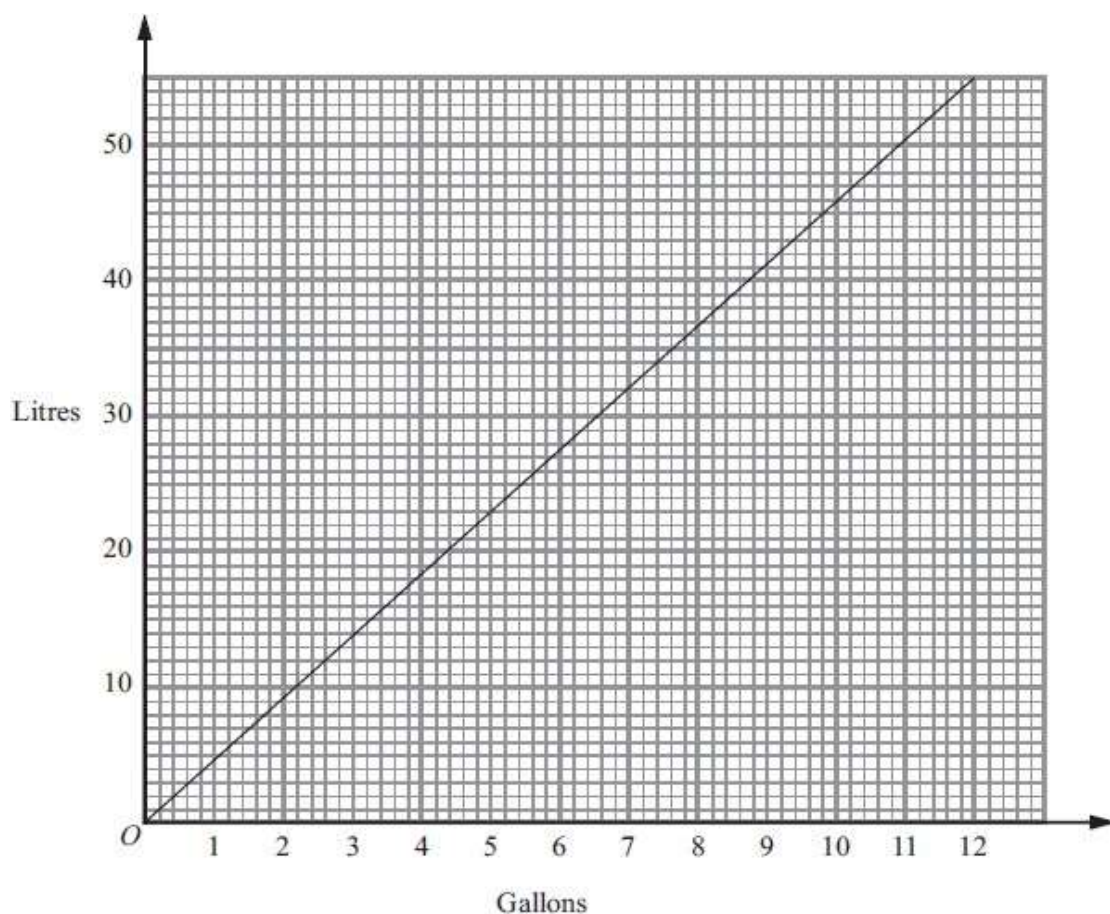
.....

(2)

(Total 4 marks)

5.

This conversion graph can be used to change between litres and gallons.



(a) Use the graph to change 50 litres to gallons.

..... gallons
(1)

(b) Use the graph to change 6 gallons to litres.

..... litres
(1)

1 litre of petrol costs £1.15

(c) Work out the cost of 50 litres of petrol.

£
(2)

(d) Work out an estimate for the cost of 1 gallon of petrol.

£
(2)

(Total 6 marks)

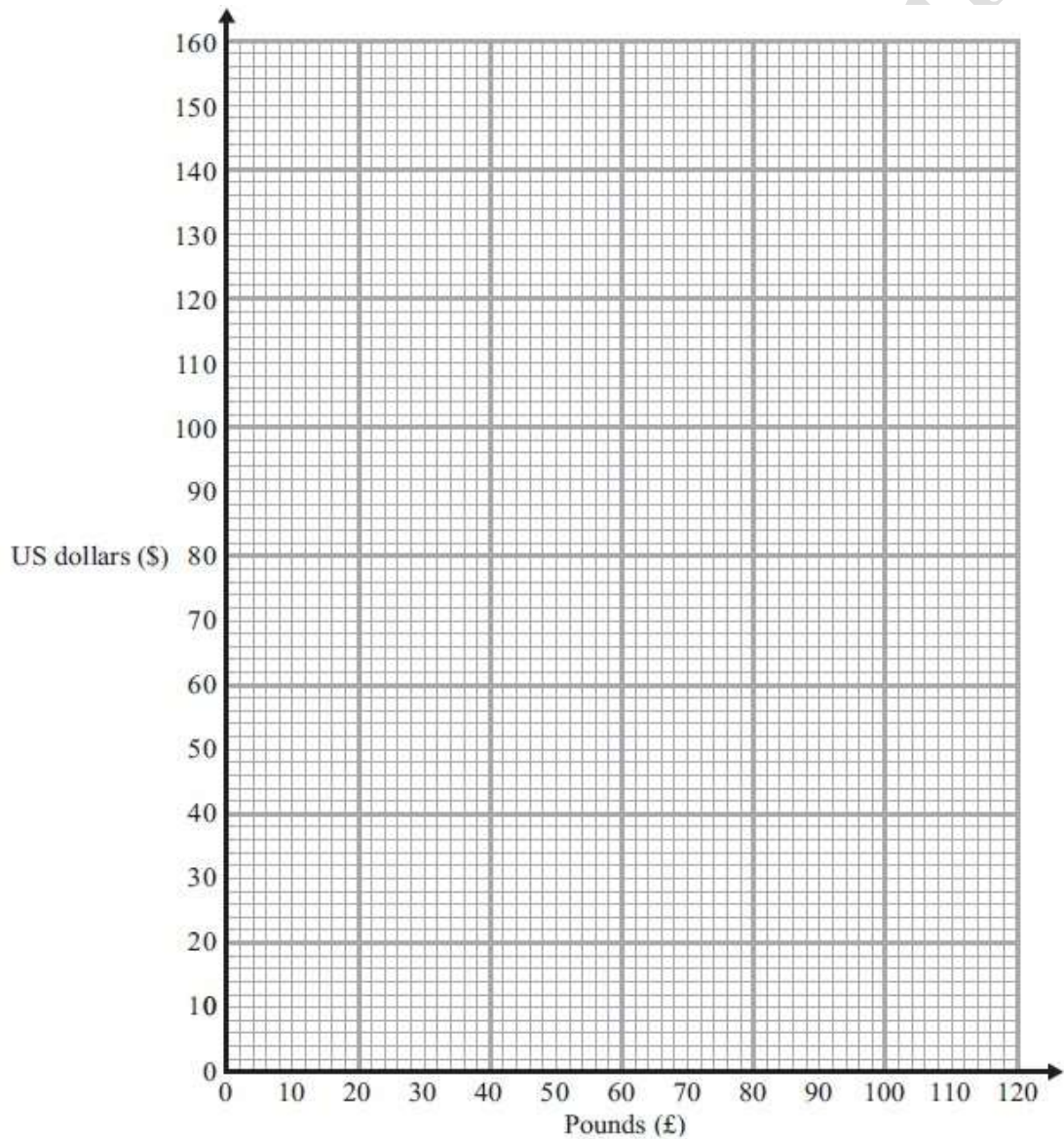
6. The exchange rate to change pounds (£) into US dollars (\$) is £1 = \$1.50

(a) Use this exchange rate to complete the table below.

Pounds (£)	0	1	2	5	10	20	50	100
US dollars (\$)	0	1.50		7.50		30		150

(2)

(b) On the grid, draw a conversion graph for converting between pounds and US dollars.



(2)

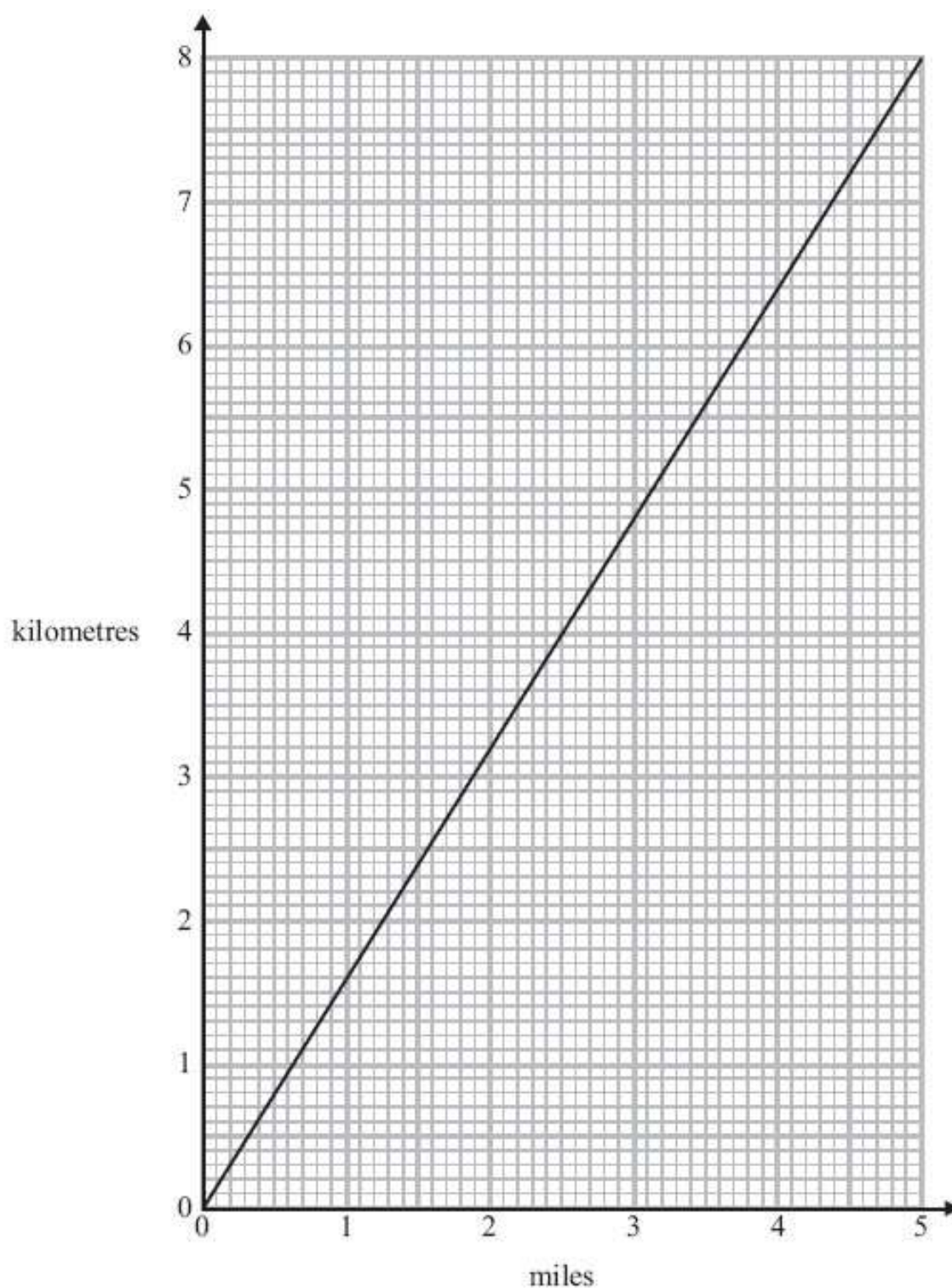
(c) Change \$100 into pounds (£).

£

(2)

(Total 6 marks)

7. You can use the graph to change between miles and kilometres.



Change 60 kilometres into miles.

..... miles

(Total 3 marks)