Chhetri Academy

chhetriacademy.com

GCSE MATHS

Ratio, proportion and rates of change

Edexcel 1MA1 | Subtopic collection Topic 36

Converting units

Foundation tier

Past paper question booklet

91	2010-2025	Foundation
question groups	available papers	tier

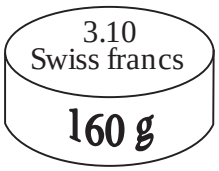
Before you begin

1. Show working and use units where appropriate.
2. Use extra paper if you need more space.
3. Print at actual size (100%) for measurement questions.

Name _____ **Date** _____

Whole questions are retained for context; some parts cover other points. Legacy sources are labelled.

***14** Margaret is in Switzerland.
The local supermarket sells boxes of Reblochon cheese.



Each box of Reblochon cheese costs 3.10 Swiss francs.
It weighs 160 g.

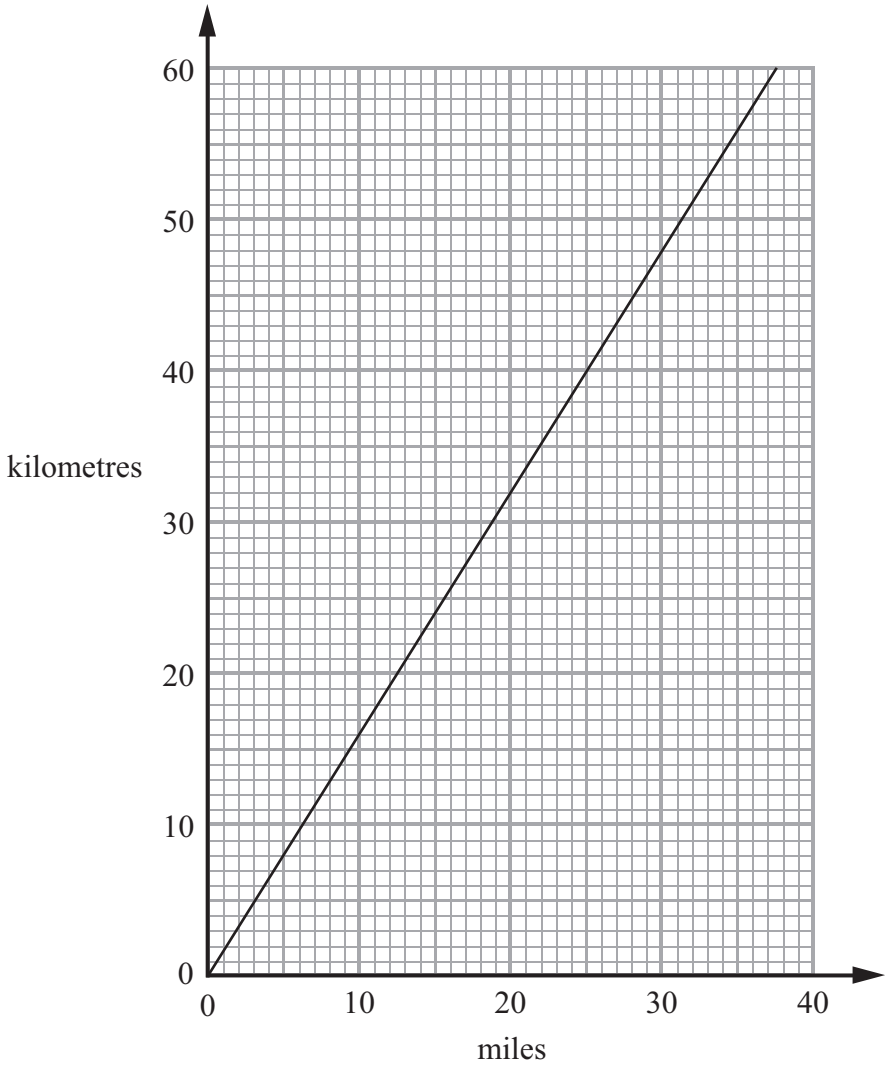
In England, a box of Reblochon cheese costs £13.55 per kg.

The exchange rate is £1 = 1.65 Swiss francs.

Work out whether Reblochon cheese is better value for money in Switzerland or in England.

(Total for Question 14 is 4 marks)

9 This conversion graph can be used to change between miles and kilometres.



(a) Use the graph to change 30 miles to kilometres.

..... kilometres
(1)

(b) Use the graph to change 40 kilometres to miles.

..... miles
(1)

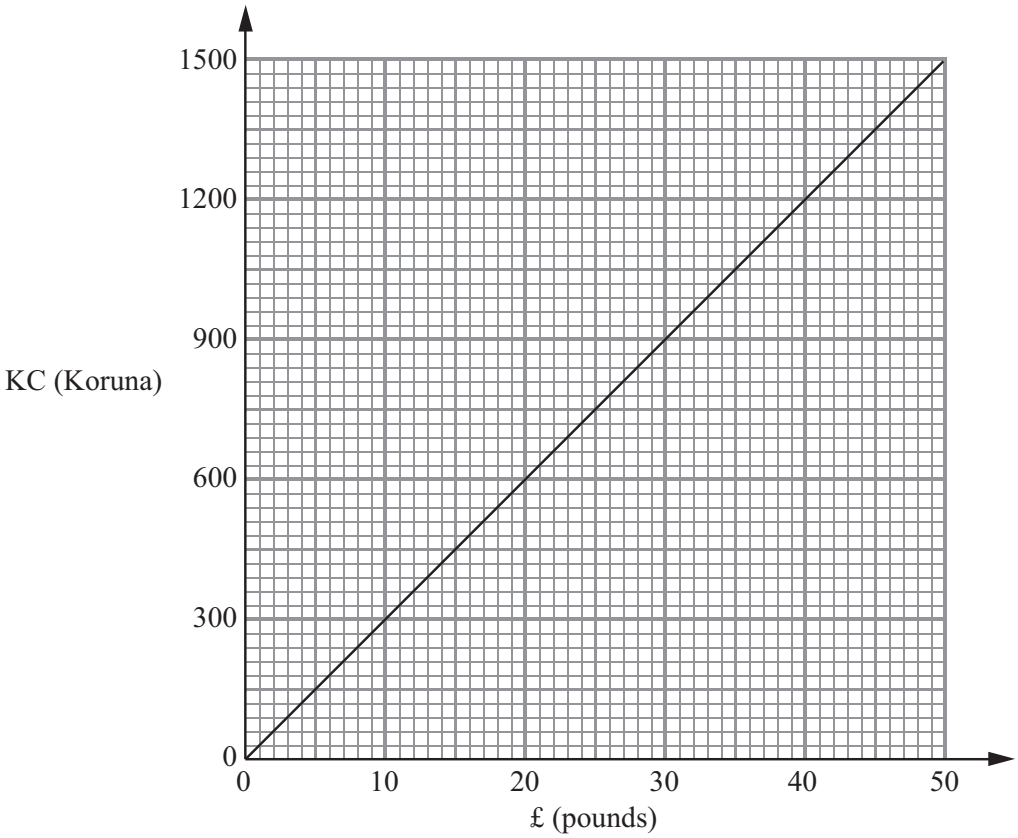
(c) Change 100 miles to kilometres.

..... kilometres
(2)

(Total for Question 9 is 4 marks)

***12** Barbara goes on holiday to Prague. The currency in Prague is the Koruna (KC).

This graph can be used to convert between £ (pounds) and KC (Koruna).
The exchange rate is £1 = 30 KC.



Barbara bought some things in London.
She saw the same things on sale in Prague.

The table shows the cost in £ (pounds) and the cost in KC (Koruna).

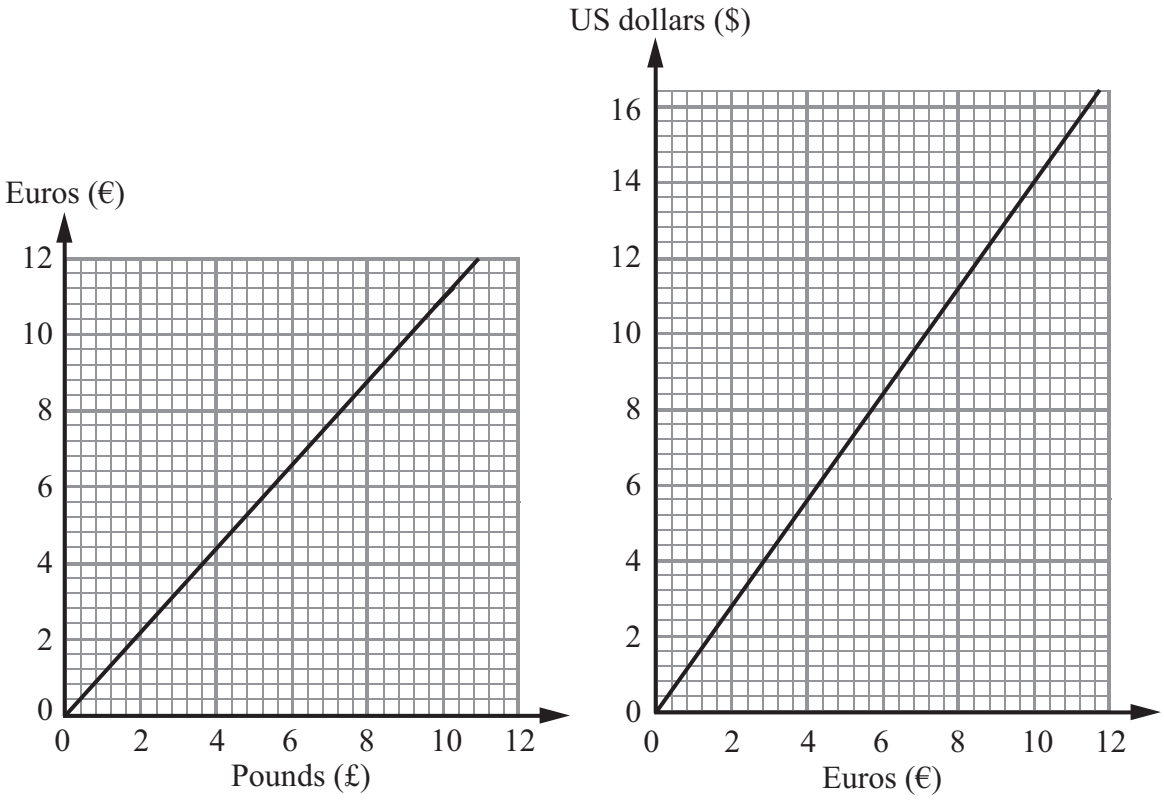
Item	Cost in London £ (pounds)	Cost in Prague KC (Koruna)
Headphones	£15	450 KC
Suitcase	£34	750 KC
Music player	£26	810 KC

Barbara thinks the total cost of these things was more in London than in Prague.

Is she correct?
Give a reason for your answer.
You must show all your working.

(Total for Question 12 is 5 marks)

9 These graphs can be used to convert between pounds (£), Euros (€) and US dollars ($).



(a) Convert £6 to Euros (€).

€ .....

(1)

(b) Convert $5 to Euros (€).

€ .....

(1)

On the internet, Amir sees a pair of trainers.
The trainers cost $65



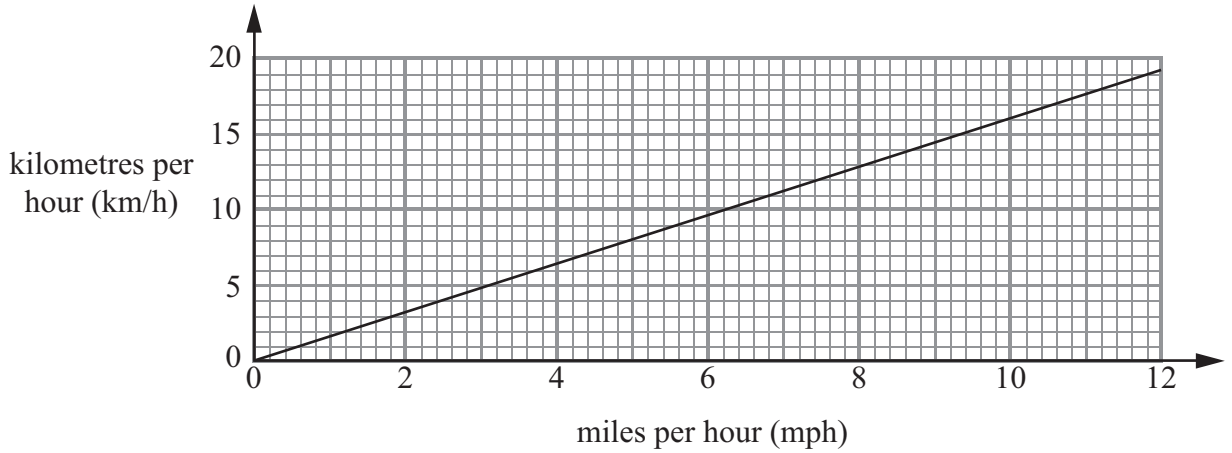
(c) Work out the cost of the trainers in pounds (£).

£ .....

(4)

(Total for Question 9 is 6 marks)

10



This conversion graph can be used to change between kilometres per hour (km/h) and miles per hour (mph).

(a) Use the conversion graph to change 10 mph to km/h.

..... km/h

(1)

(b) Use the conversion graph to change 4 km/h to mph.

..... mph

(1)

Stefan runs at an average speed of 6 mph.
Debbie runs at an average speed of 10.5 km/h.

(c) (i) Who has the greater average speed, Stefan or Debbie?

.....

(ii) How did you get your answer?

.....

.....

(2)

(Total for Question 10 is 4 marks)

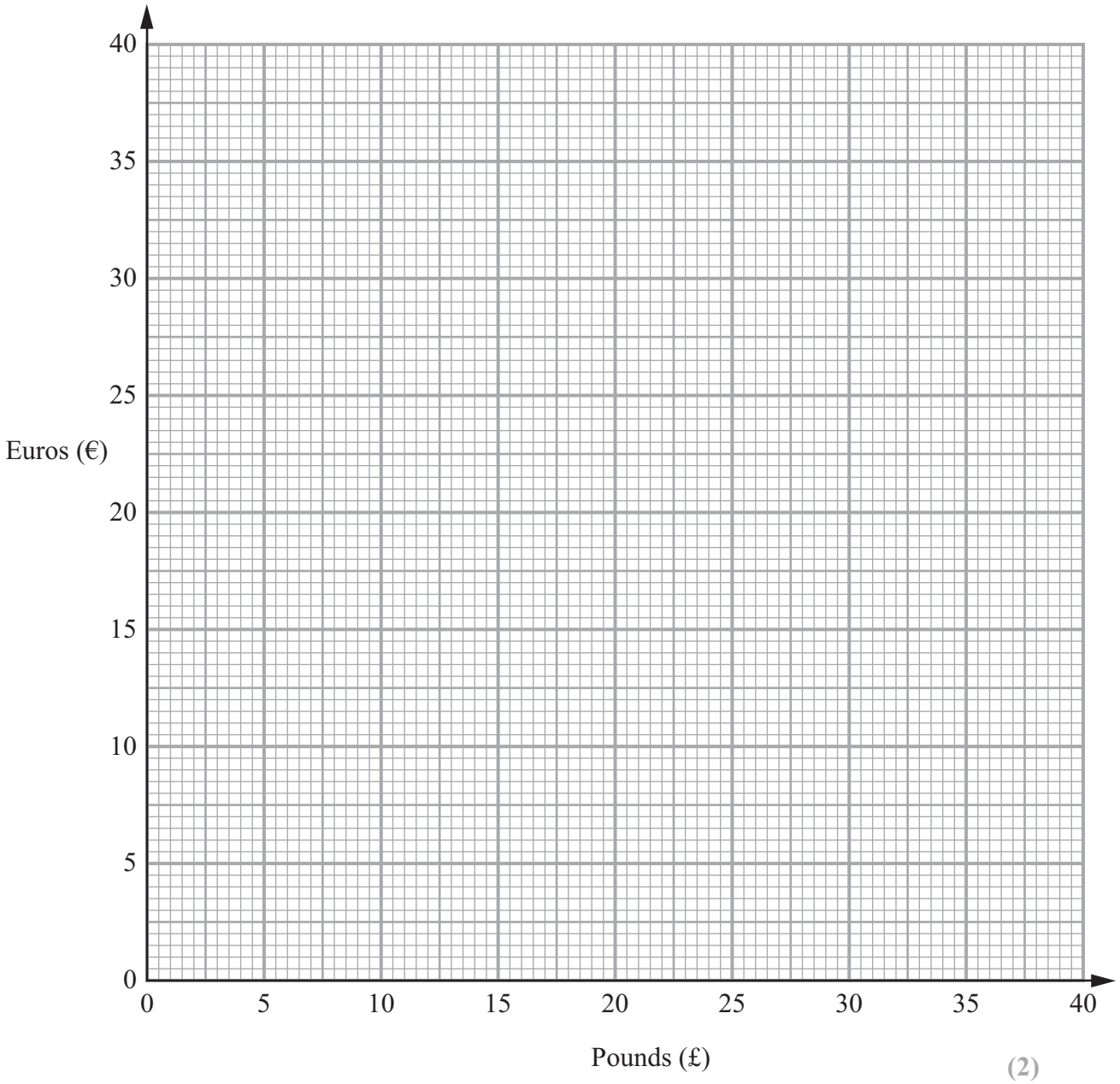
11 The exchange rate for pounds (£) to euros (€) is £1 = €1.20

(a) Complete the table of values.

£	0	1	5	10	15	20	25	30
€		1.20	6			24	30	

(2)

(b) On the grid, draw a conversion graph for pounds (£) to euros (€).



(2)

Louise changes £250 into euros.

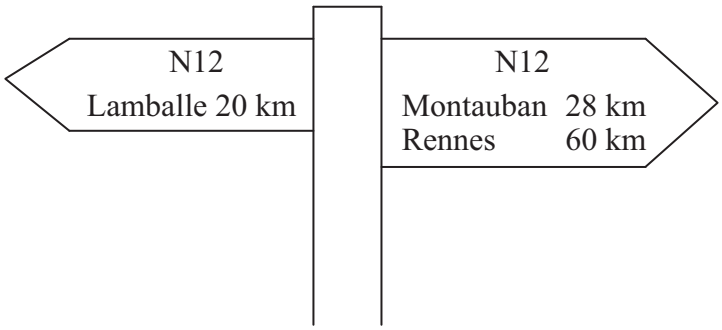
(c) Work out how many euros Louise should get.

..... euros

(2)

(Total for Question 11 is 6 marks)

13 Caroline is driving her car in France.
She sees this road sign.



(a) Work out the distance between Lamballe and Montauban on the N12

..... km
(1)

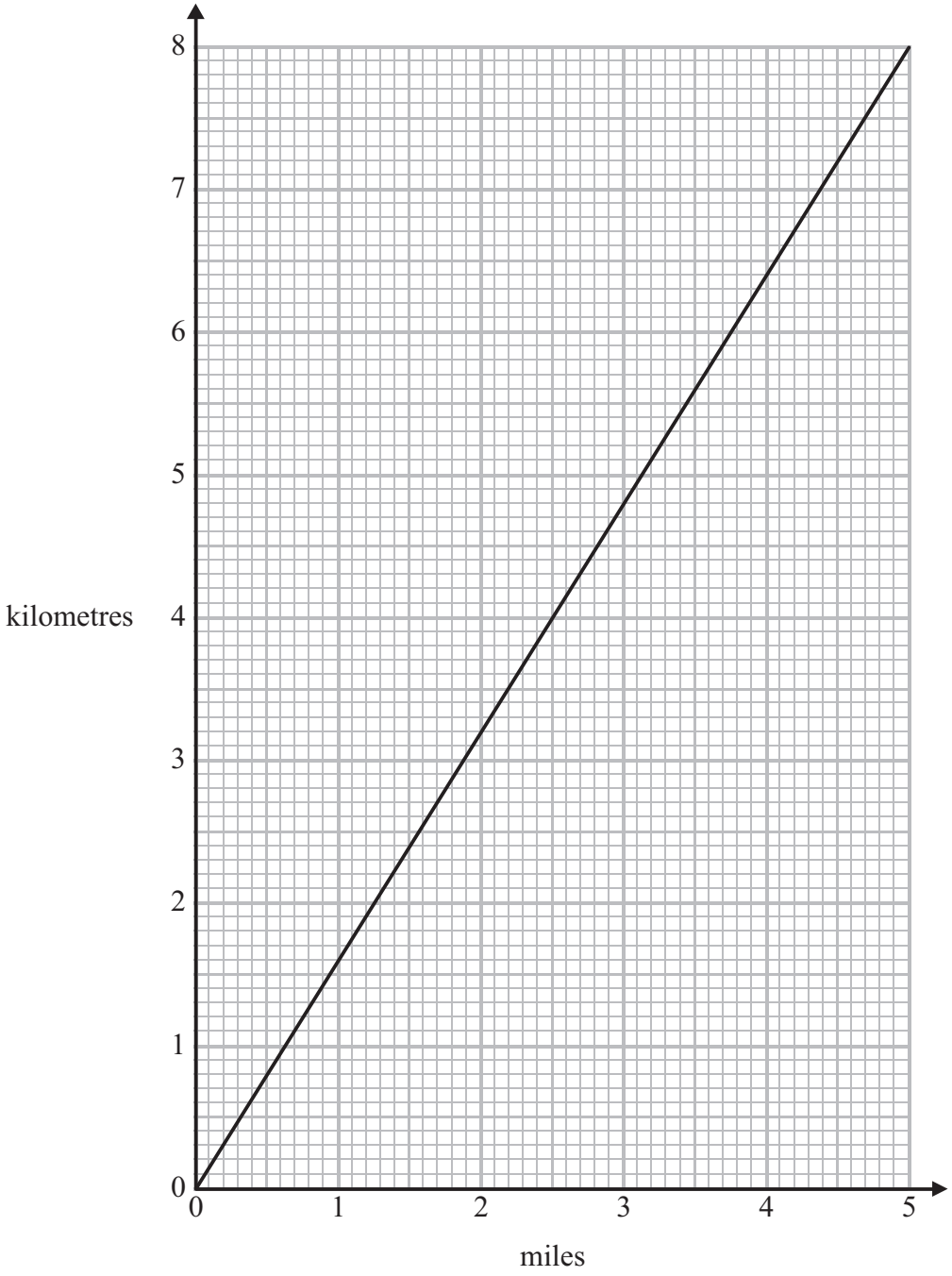
Caroline is going to Rennes on the N12
She stops driving 10 miles from the road sign.

(b) Work out how much further Caroline has to drive to get to Rennes.

.....
(3)

(Total for Question 13 is 4 marks)

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



(a) Change 3 miles into kilometres.

..... kilometres
(1)

(b) Change 60 kilometres into miles.

..... miles
(2)

(Total for Question 12 is 3 marks)

25 Linda is going on holiday to the Czech Republic.
She needs to change some money into koruna.

She can only change her money into 100 koruna notes.

Linda only wants to change up to £200 into koruna.
She wants as many 100 koruna notes as possible.

The exchange rate is £1 = 25.82 koruna.

(a) How many 100 koruna notes should she get?

.....

(3)

Linda buys a meal in the Czech Republic.
The meal costs 400 koruna.

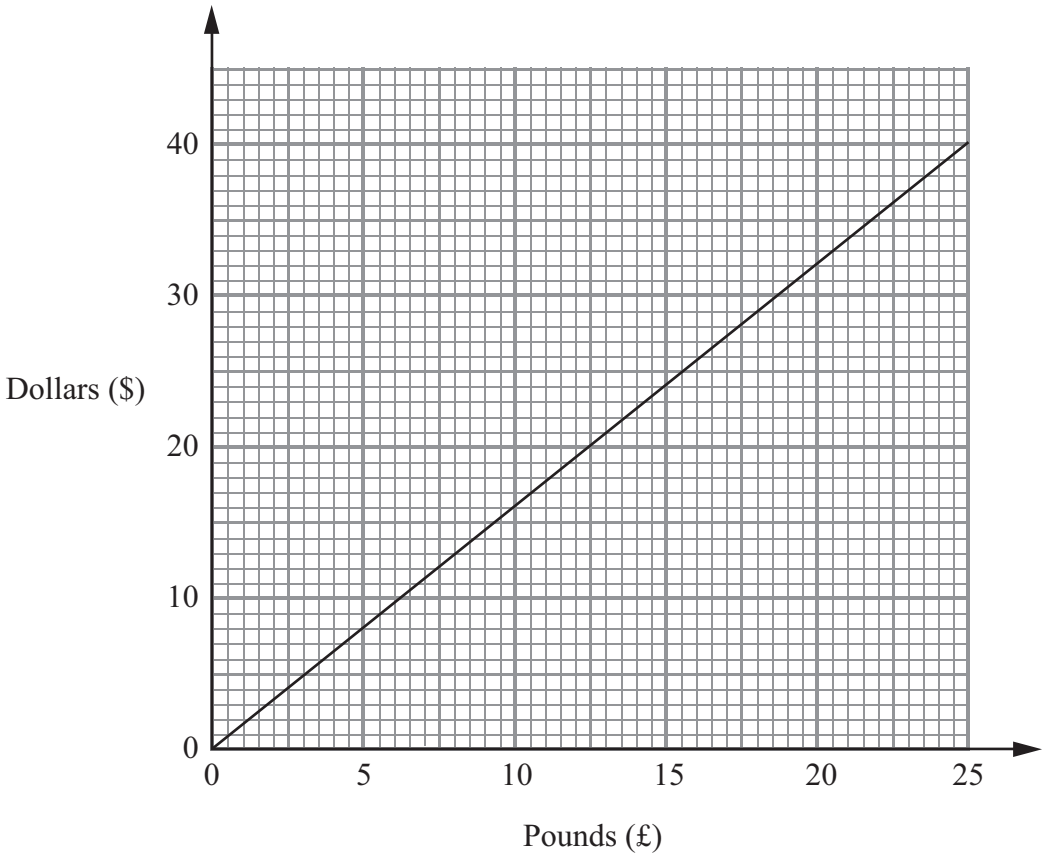
(b) Work out the cost of the meal in pounds.

£.....

(3)

(Total for Question 25 is 6 marks)

***6** You can use this conversion graph to change between pounds (£) and dollars ($).



Stacey bought a watch in New York.
The watch cost $220

In London, the same type of watch costs £140

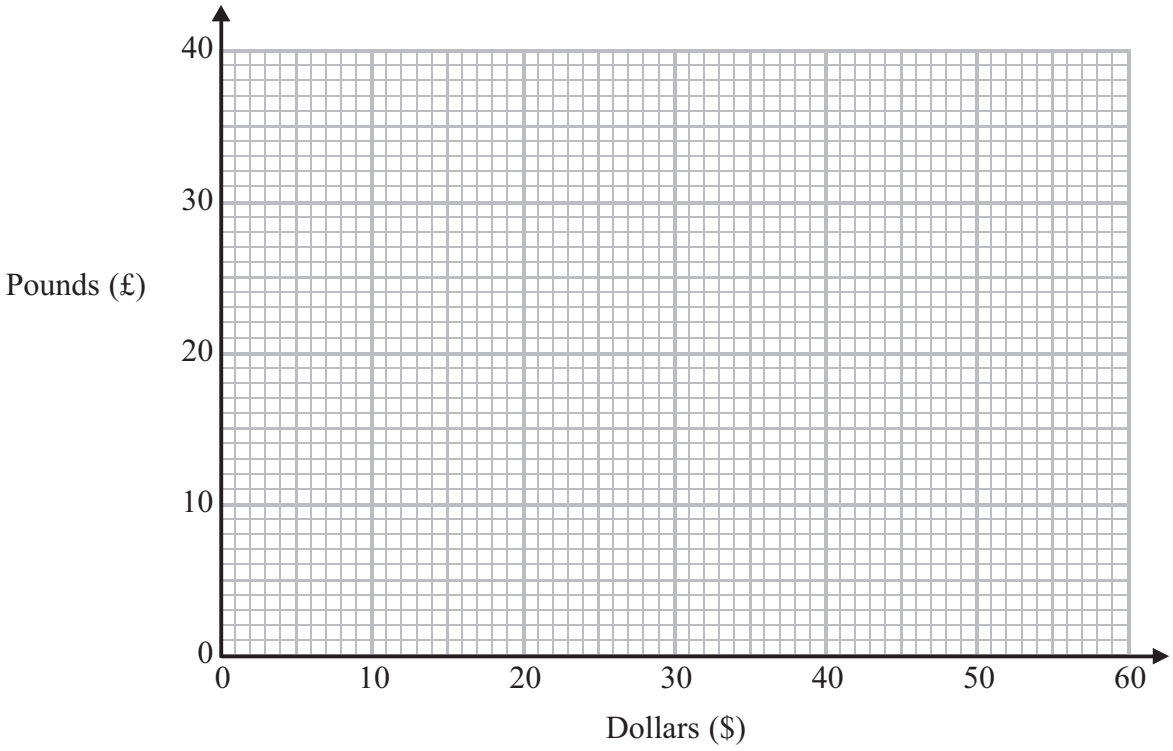
Compare the cost of the watch in New York with the cost of the watch in London.

(Total for Question 6 is 4 marks)

11 The table shows how much some amounts of money in dollars ($) are when they are changed to pounds (£).

Dollars ($)	0	15	30	45	60
Pounds (£)	0	10	20	30	40

(a) On the grid, use this information to draw a line graph to change between dollars and pounds.



(2)

(b) Use your line graph to change

(i) £25 into $

$ .....

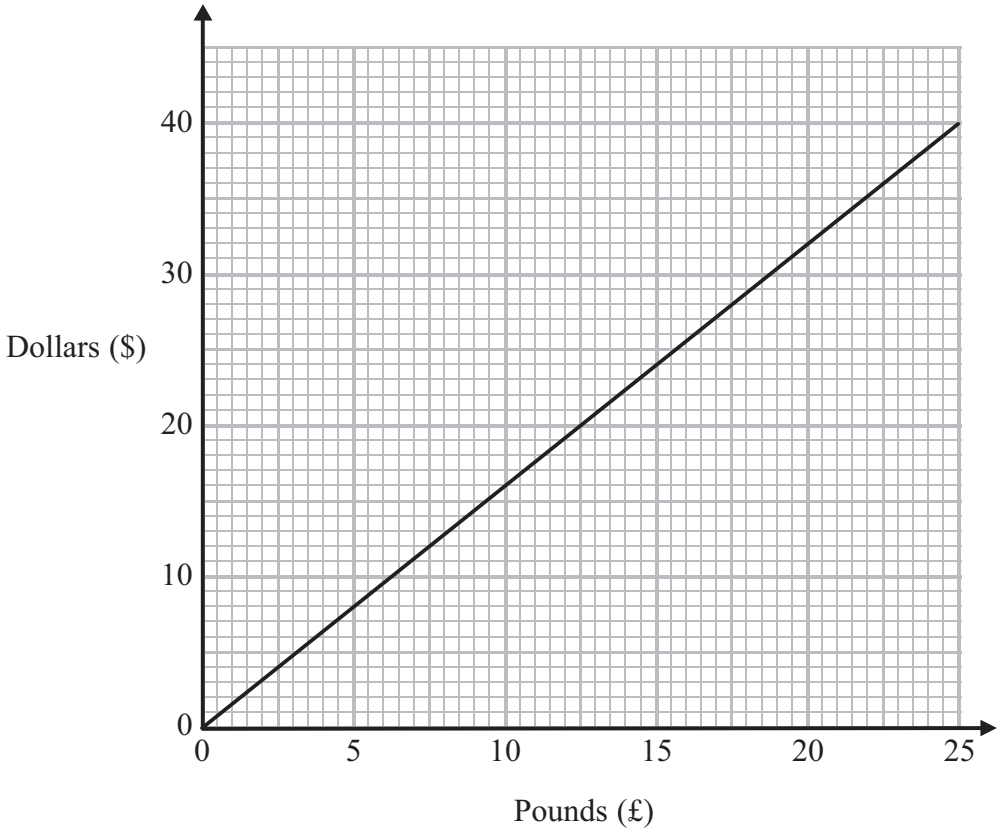
(ii) $50 into £

£ .....

(2)

(Total for Question 11 is 4 marks)

15 You can use this graph to change between pounds (£) and dollars ($).



(a) Change £20 into dollars ($).

$.....

(1)

In London, Sano headphones cost £60
In New York, Sano headphones cost $100

Sano headphones cost more in New York than in London.

(b) How much more?

.....

(3)

(Total for Question 15 is 4 marks)

11 (a) Complete this table.

Write a sensible unit for each measurement.

	Metric	Imperial
Diameter of a football	.....	inches
Amount of fuel in a car fuel tank	litres	.....

(2)

(b) (i) Change 4 kg to grams.

..... grams

(ii) Change 3500 m*l* to litres.

..... litres

(2)

(Total for Question 11 is 4 marks)

3 Erin is going on holiday.

When she gets to the airport she looks at the clock.



(a) (i) Write down the time shown on the clock.

.....

Erin's plane will leave at 9.26 am.

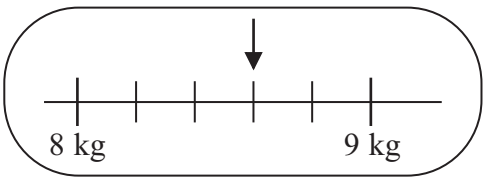
(ii) How long will Erin have to wait until her plane leaves?

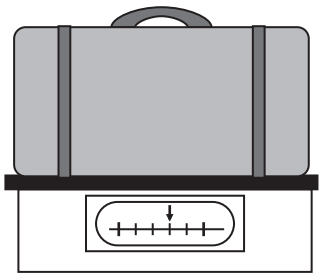
.....

(3)

Erin's suitcase is weighed at the check-in desk.

The scales show the weight of her suitcase.





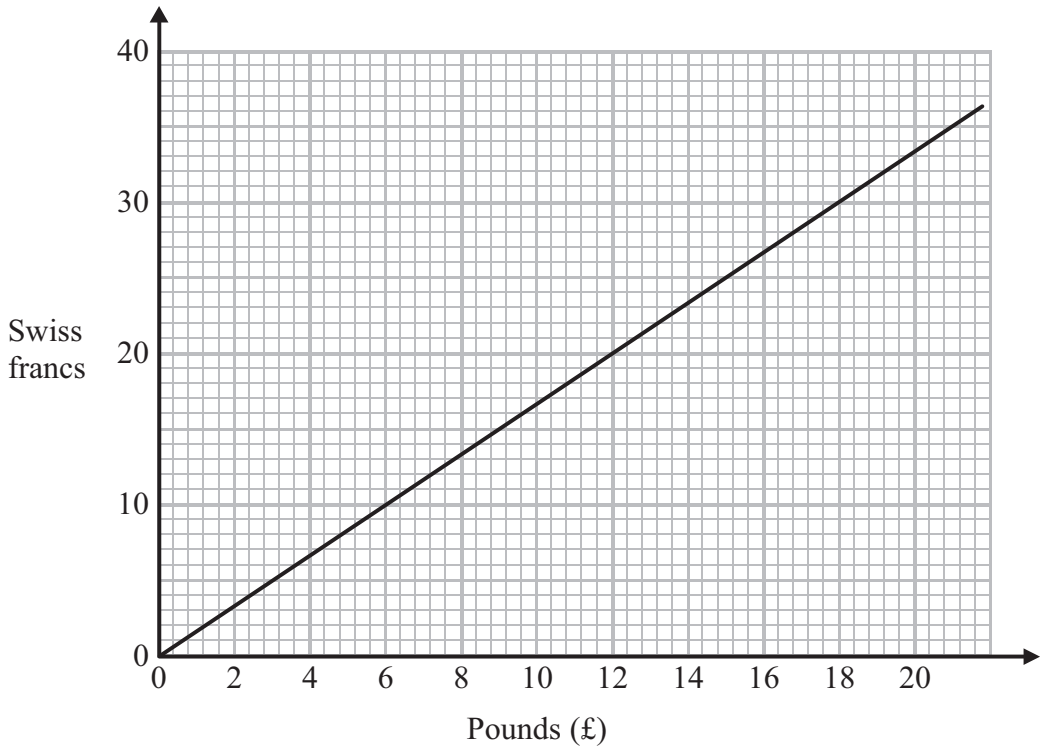
(b) Write down this weight.

..... kg

(1)

(Total for Question 3 is 4 marks)

11 You can use this conversion graph to change between pounds (£) and Swiss francs.



(a) Use the graph to change £6 to Swiss francs.

..... Swiss francs
(1)

(b) Use the graph to change 25 Swiss francs to pounds (£).

£ .....
(1)

(c) Change £64 to Swiss francs.

..... Swiss francs
(2)

(Total for Question 11 is 4 marks)

13 Here is a list of ingredients for making apple crumble for 2 people.

Apple Crumble for 2 people

10 ounces apples
4 ounces flour
2 ounces sugar
1 ounce butter
1 tablespoon water
1 teaspoon baking powder

1 ounce	=	28 grams
1 tablespoon	=	15 m*l*
1 teaspoon	=	5 m*l*

Anne is going to make apple crumble for 5 people.

(a) Work out how much flour she needs.
Give your answer in grams.

..... grams
(3)

David is making an apple crumble.
He uses 140 grams of butter.

(b) Work out how many people he is making apple crumble for.

.....

(2)

(Total for Question 13 is 5 marks)

7 Wendy is putting sweets into packets.

She has 9000 sweets.
She puts 45 sweets in each packet.

Wendy puts the packets of sweets into boxes.
She puts 25 packets of sweets into each box.

(a) Work out the total number of boxes Wendy needs.

..... boxes
(3)

Each packet of sweets weighs 690 g.
Each box weighs 260 g.

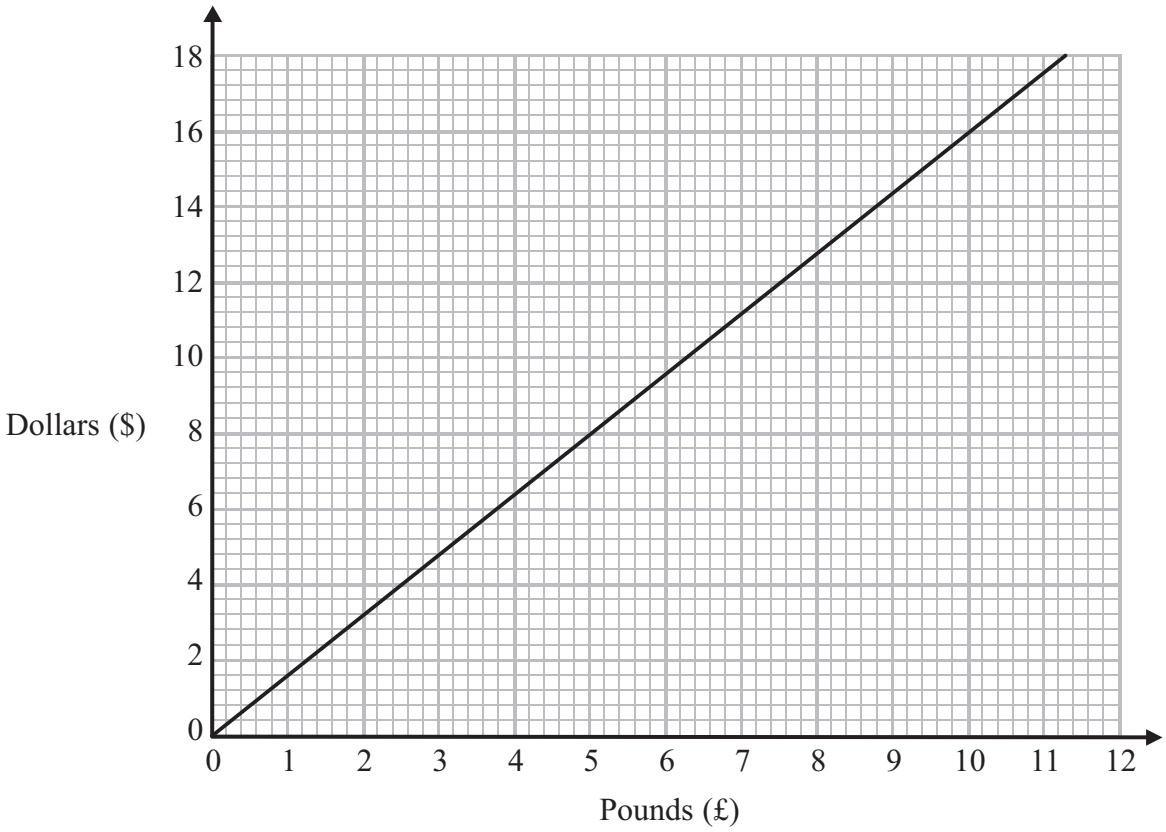
There are 25 packets of sweets in each box.

(b) Work out the total weight of a full box of sweets.
Give your answer in kilograms.

..... kg
(4)

(Total for Question 7 is 7 marks)

14 You can use this conversion graph to change between pounds (£) and dollars ($).



(a) Use the conversion graph to change £5 to dollars.

$ .....

(1)

Ella has $200 and £800
Her hotel bill is $600

Ella pays the bill with the $200 and some of the pounds.

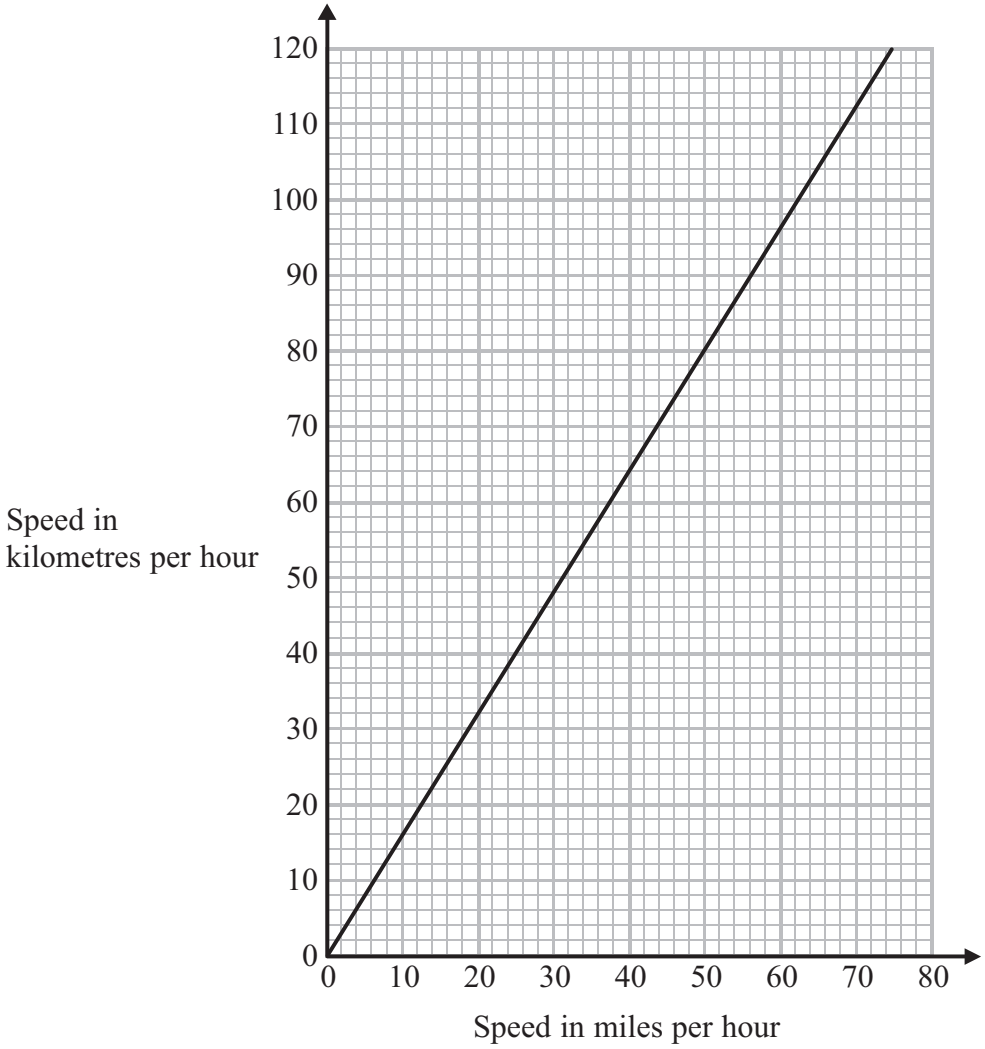
(b) Use the conversion graph to work out how many pounds she has left.

£ .....

(4)

(Total for Question 14 is 5 marks)

8 Here is a conversion graph.



You can use the graph to change between speed in miles per hour and speed in kilometres per hour.

(a) Change 30 miles per hour to kilometres per hour.

..... kilometres per hour
(1)

(b) Change 72 kilometres per hour to miles per hour.

..... miles per hour
(1)

Jack is in France.
He has to drive 180 miles to the ferry.
He has 3 hours to get to the ferry.

In France, Jack must not drive at a speed greater than 90 kilometres per hour.

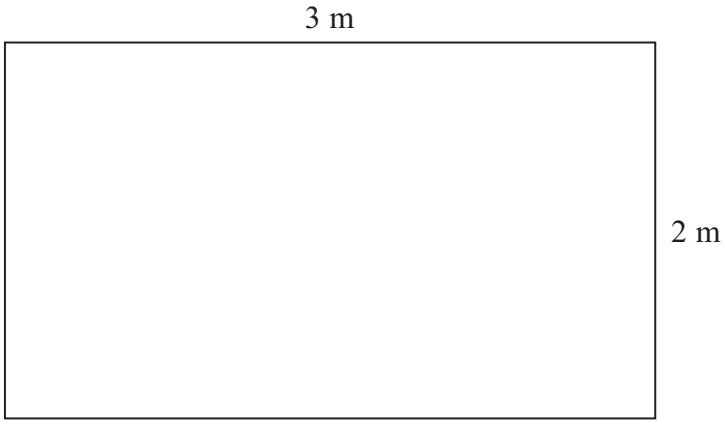
*(c) Can Jack drive to the ferry in 3 hours?
You must show all your working.

(3)

(Total for Question 8 is 5 marks)

17 Here is a diagram of part of a wall in Sarah's house.

Diagram **NOT** accurately drawn



Sarah is going to cover this part of the wall with square tiles.
The square tiles have sides of 20 cm.

Work out the number of tiles Sarah needs.

..... tiles

(Total for Question 17 is 3 marks)

24 Peter goes for a walk.
He walks 15 miles in 6 hours.

(a) Work out Peter's average speed.
Give your answer in miles per hour.

..... mph
(2)

5 miles = 8 km.
Sunita says that Peter walked more than 20 km.

*(b) Is Sunita right?
You must show all your working.

(2)

(Total for Question 24 is 4 marks)

Question 22

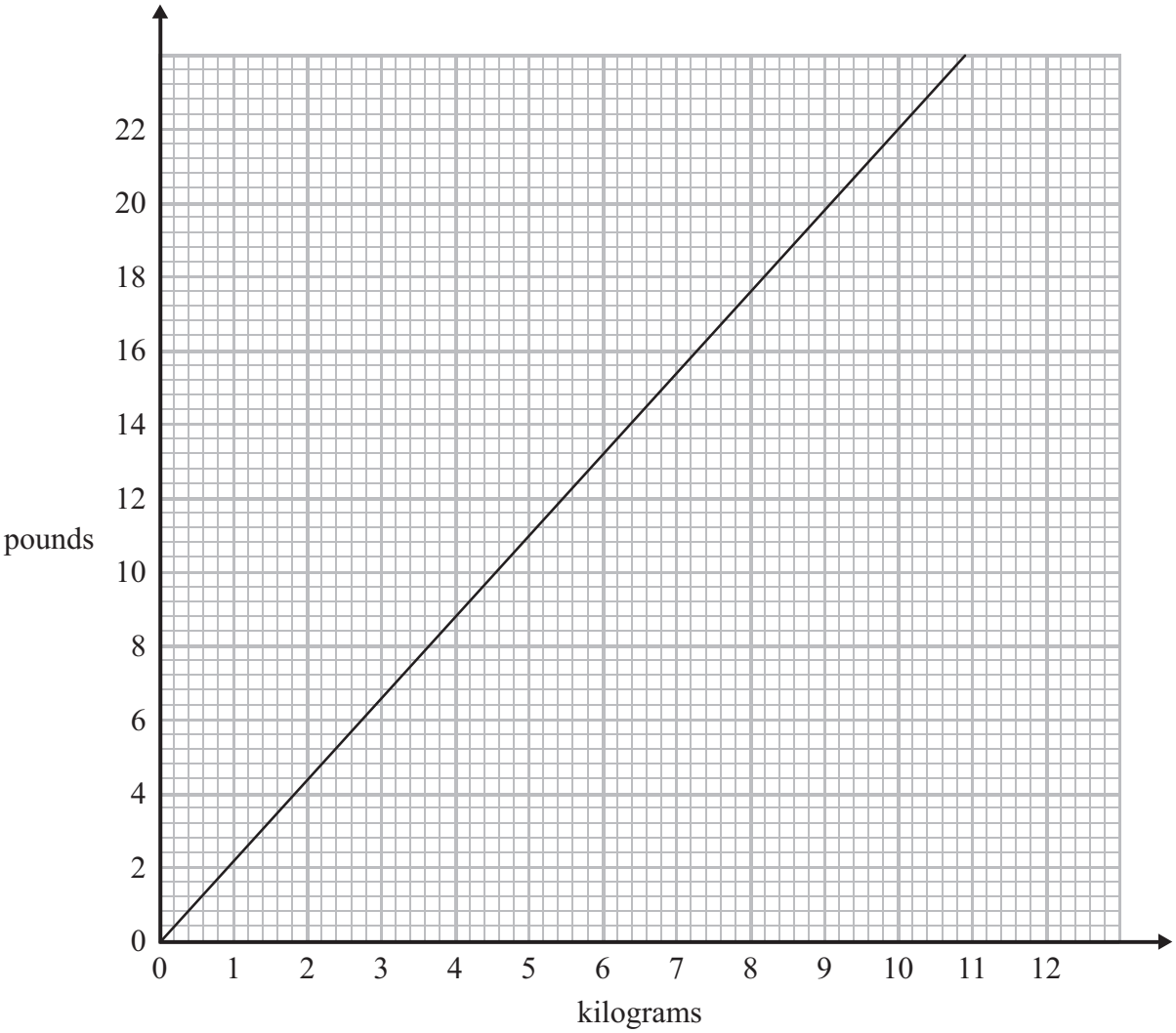
7 Jack is 1.78 m tall.
Amy is 5 cm taller than Jack.

How tall is Amy?

.....

(Total for Question 7 is 2 marks)

13 You can use this conversion graph to change between kilograms and pounds.



Daniel's weight is 9 stone 6 pounds.
1 stone = 14 pounds.

What is Daniel's weight in kilograms?

..... kilograms

(Total for Question 13 is 3 marks)

2 (a) Write 35 mm in cm.

..... cm

(1)

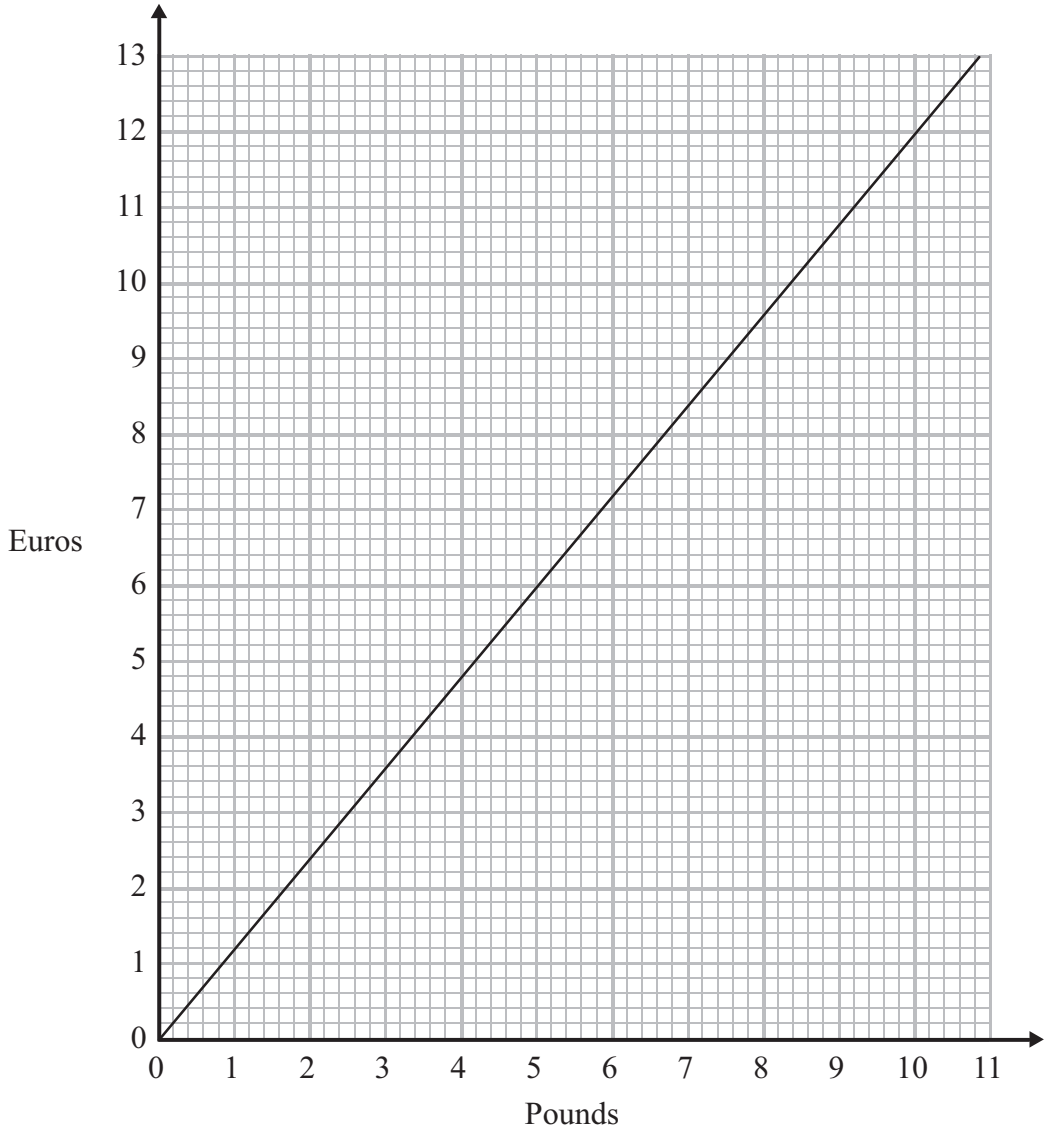
(b) Write 2.4 kg in g.

..... g

(1)

(Total for Question 2 is 2 marks)

12 You can use this graph to change between pounds and euros.



(a) Change 6 euros into pounds.

..... pounds

(1)

Amy changes 50 pounds into euros.

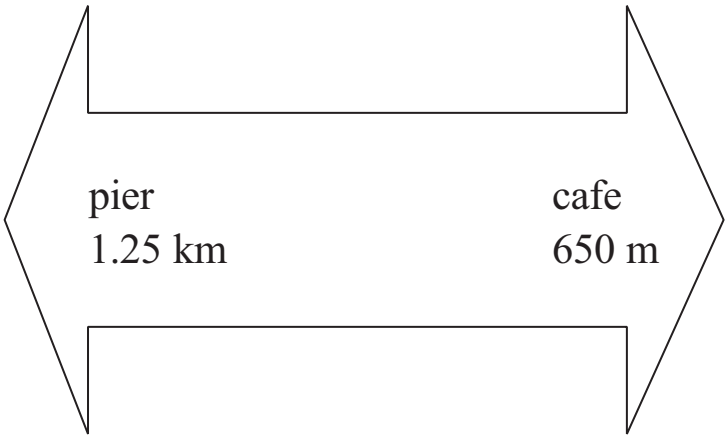
(b) How many euros should she get?

..... euros

(2)

(Total for Question 12 is 3 marks)

9 John is walking along a path.
He sees this sign.

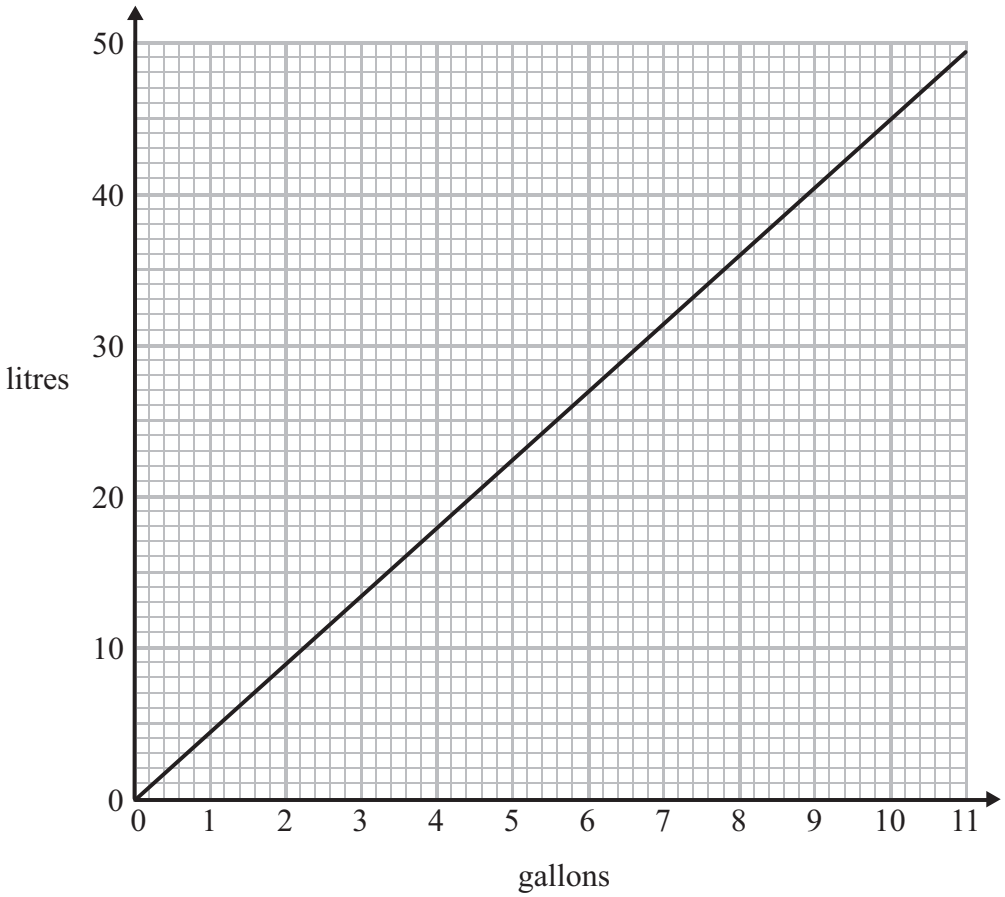


How far is it from the pier to the cafe along the path?

.....

(Total for Question 9 is 3 marks)

18 You can use this graph to change between gallons and litres.



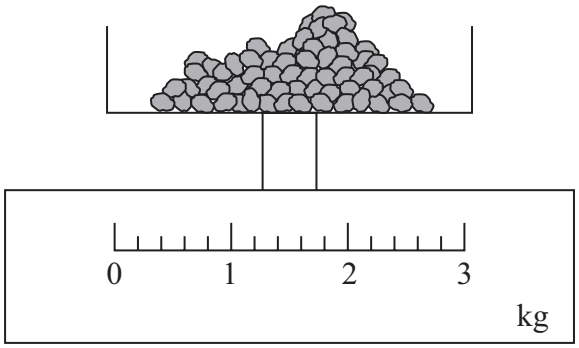
There are 80 litres of petrol in the petrol tank of car A.
There are 16 gallons of petrol in the petrol tank of car B.

Which car has the most petrol in its petrol tank?
You must show all your working.

.....

(Total for Question 18 is 3 marks)

11 Jordan wants to make two dried fruit puddings.
He weighs some dried fruit.



The dried fruit weighs 0.8 kg.

(a) On the scale, show with an arrow (↑), 0.8 kg.

(1)

Jordan needs $\frac{3}{4}$ kg of dried fruit to make one pudding.

(b) Work out how much more dried fruit Jordan needs to make two puddings.
Give your answer in grams.

.....grams

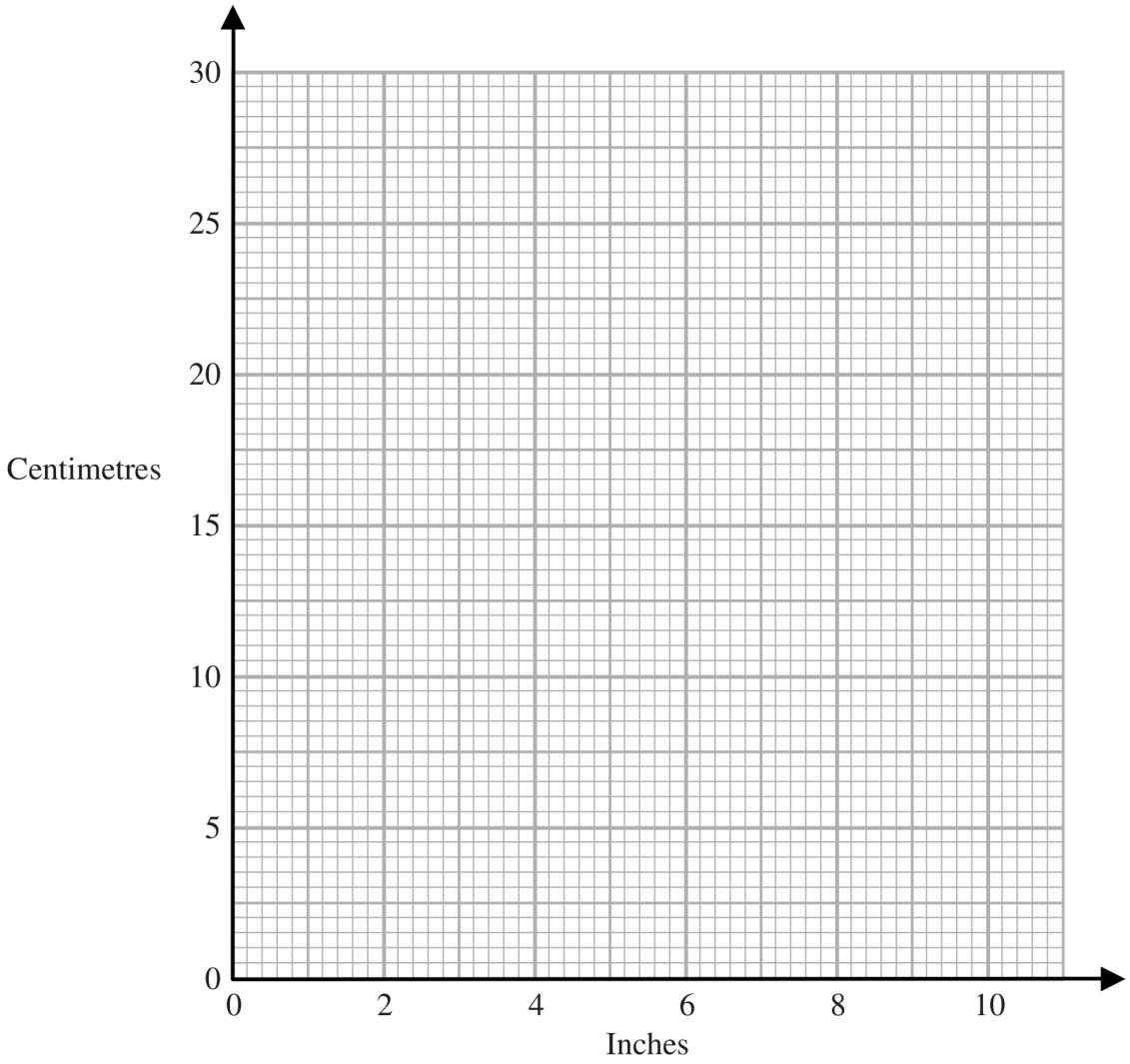
(4)

(Total for Question 11 is 5 marks)

9 The table shows some lengths in inches changed into lengths in centimetres.

Length in inches	0	2	6	10
Length in centimetres	0	5	15	25

(a) On the grid, use this information to draw a line graph that can be used to change between inches and centimetres.



(2)

Kate's height is 62 inches.
Helen's height is 150 centimetres.

*(b) Who is the tallest?

(3)

(Total for Question 9 is 5 marks)

17 Kelan is packing plates in a wooden box.

The empty box has a weight of 4.3 kg.
Each plate has a weight of 760 g.

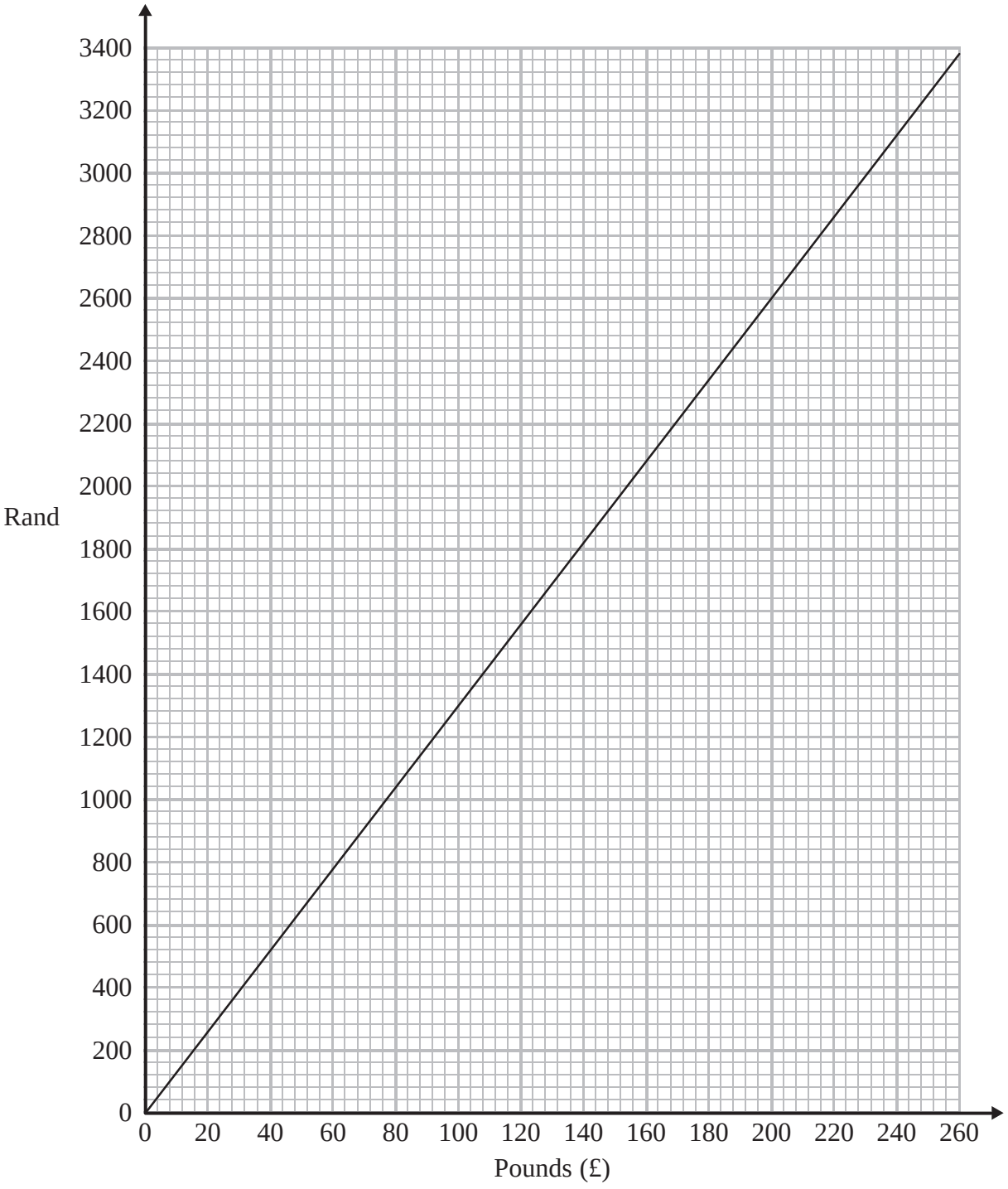
When the box is packed with plates, the total weight must **not** be more than 25 kg.

Work out the greatest number of plates Kelan can pack in the box.

.....

(Total for Question 17 is 4 marks)

18 Here is a conversion graph to change between UK pounds (£) and South African rand.



Jo changes £200 into rand.

(a) How many rand does she get?

..... rand

(1)

Simon has £100 and 3700 rand.
He goes to a shop where he can spend both pounds and rand.

He wants to buy

a computer costing £360

or

a watch costing £400

or

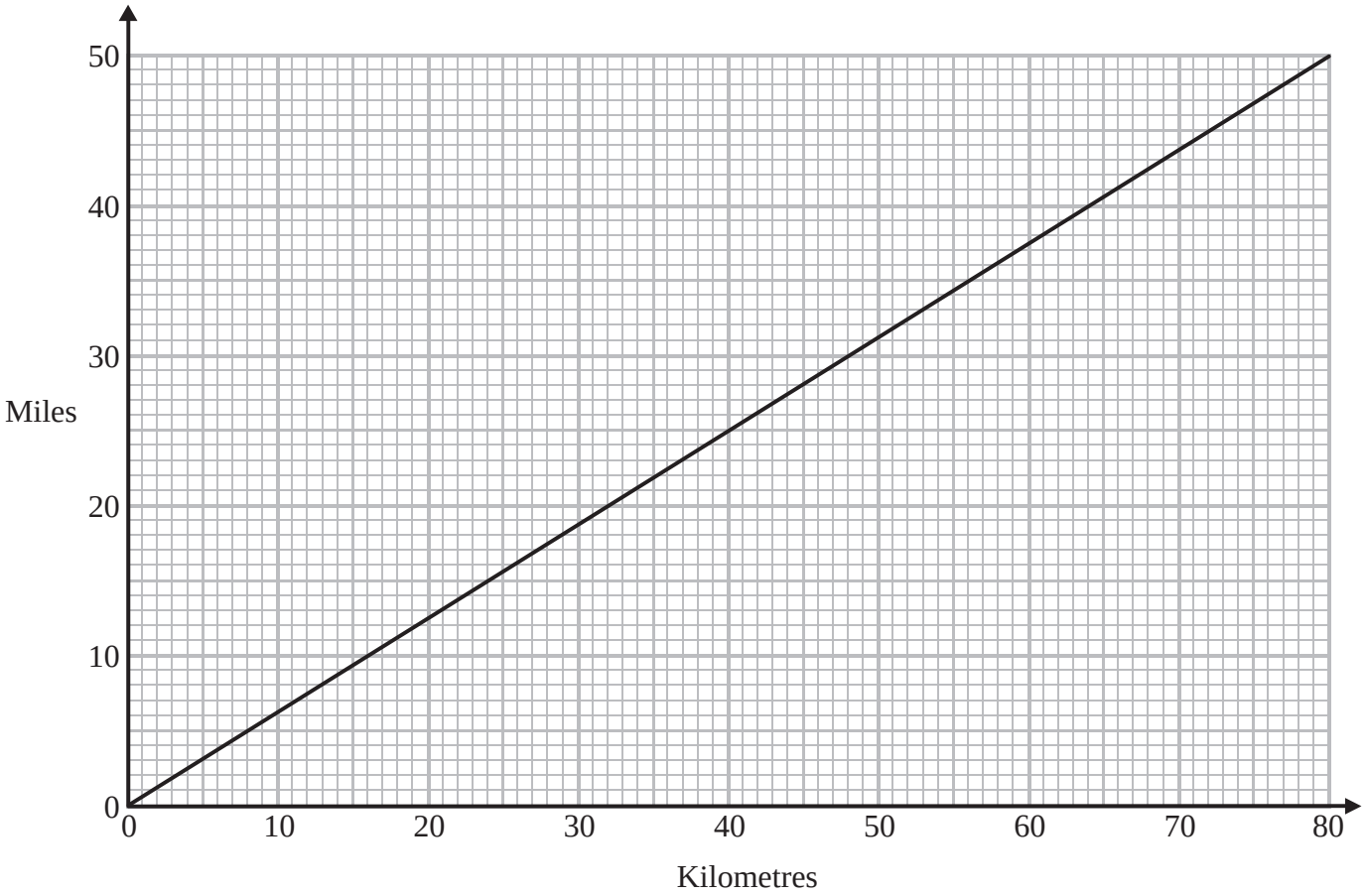
a camera costing £375

*(b) Which of these items can Simon afford to buy?
You must show clearly how you get your answer.

(3)

(Total for Question 18 is 4 marks)

9 You can use this conversion graph to change between miles and kilometres.



(a) Change 40 km into miles.

..... miles

(1)

(b) Change 35 miles into km.

..... km

(1)

Mary has to drive from Paris to Calais, and then from Dover to Sheffield.
The total distance she has to drive is 350 miles.

Mary has already driven 240 km from Paris to the ferry at Calais.
She goes on a ferry to Dover.
She now has to drive from Dover to Sheffield.

Mary has enough petrol to drive 180 miles.

*(c) Will Mary have to stop for petrol on the way to Sheffield?

(4)

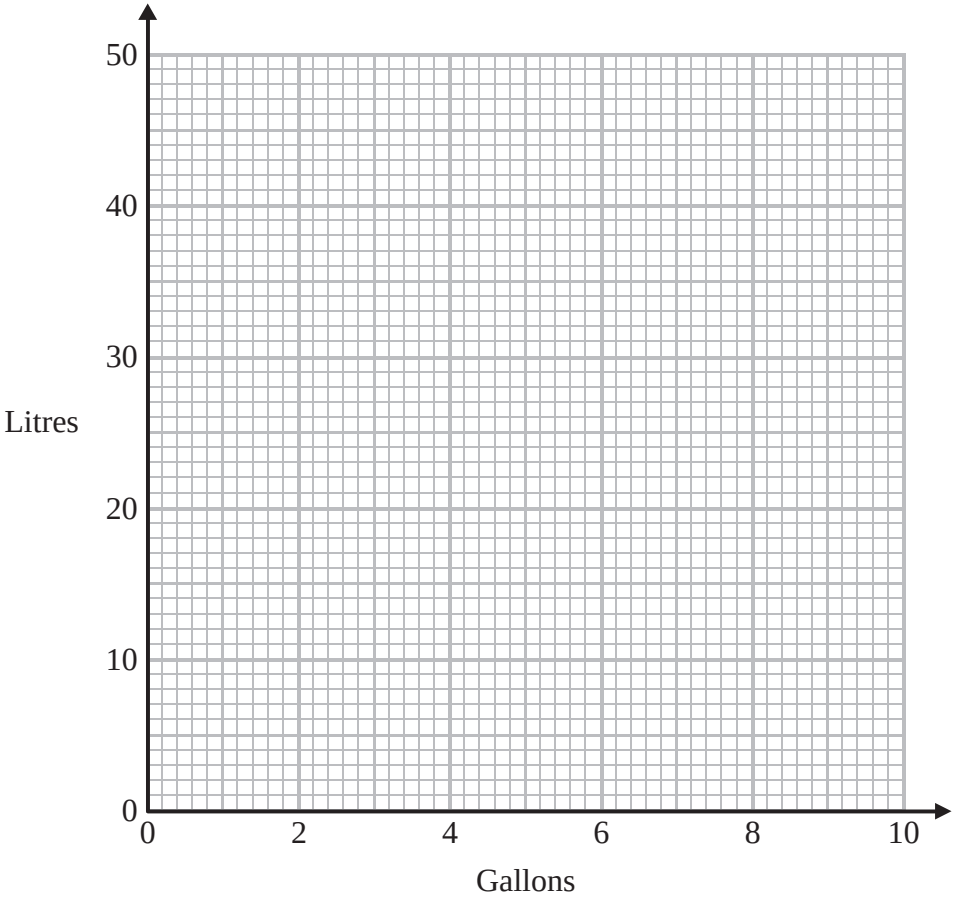
(Total for Question 9 is 6 marks)

10 Josh changed some volumes measured in gallons to litres.

The table shows his results.

gallons	0	2	4	6	8
litres	0	9	18	27	36

(a) On the grid, use this information to draw a line graph that can be used to change between gallons and litres.



(2)

(b) Use your line graph to change 5 gallons to litres.

..... litres

(1)

(c) Use your line graph to change 33 litres to gallons.

..... gallons

(1)

(Total for Question 10 is 4 marks)

13 The information in the table can be used to change between Euros (€) and Pounds (£).

Pounds (£)	10	20	100	400
Euros (€)	12.50	25	125	500

(a) Change £25 to Euros.

€.....

(2)

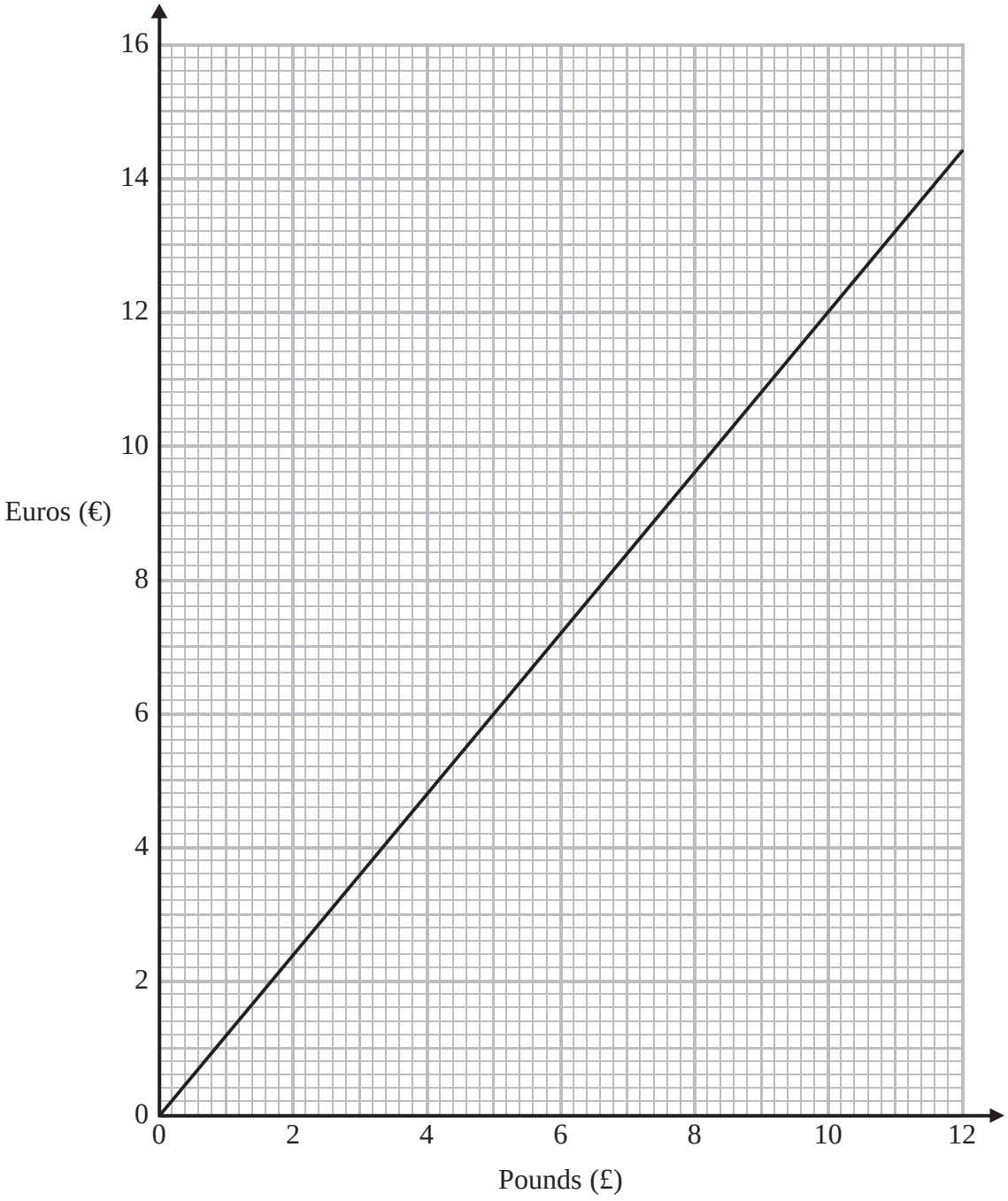
In France a coat costs €100
In England an identical coat costs £90

*(b) In which country is the coat cheaper?

(3)

(Total for Question 13 is 5 marks)

***10** You can use this conversion graph to change between Pounds (£) and Euros (€).

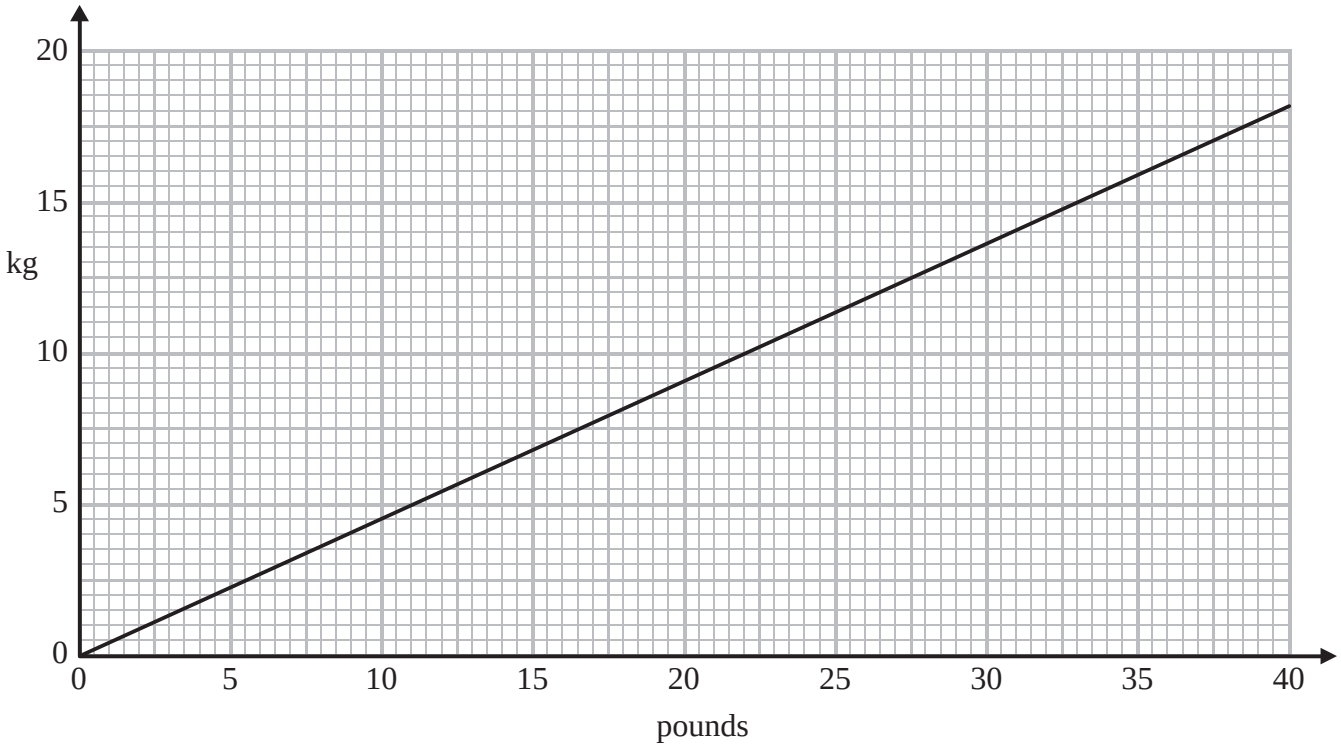


A ticket for a concert in London costs £60
A ticket for a concert in Dublin costs €70

Compare the cost of the ticket for the concert in London with the cost of the ticket for the concert in Dublin.

(Total for Question 10 is 4 marks)

12 This graph can be used to change between pounds and kg.



(a) Change 16 kg to pounds.

..... pounds
(1)

(b) Change 15 pounds to kg.

..... kg

(1)

Bill has to put 4 boxes in his van.
The weights of the boxes are

360 kg 300 kg 280 kg 340 kg

The van can carry a maximum weight of 2800 pounds.

*(c) Can Bill put all the boxes in the van?
You must show all your working.

(4)

(Total for Question 12 is 6 marks)

6 (a) Write 2.3 kg in grams.

.....g

(1)

(b) Write 350 mm in centimetres.

.....cm

(1)

(c) Change 27 000 cm^3 to litres.

.....litres

(1)

(Total for Question 6 is 3 marks)

12 Harry is going to plant some bean plants in his garden.
The garden is in the shape of a rectangle 3 metres by 2 metres.

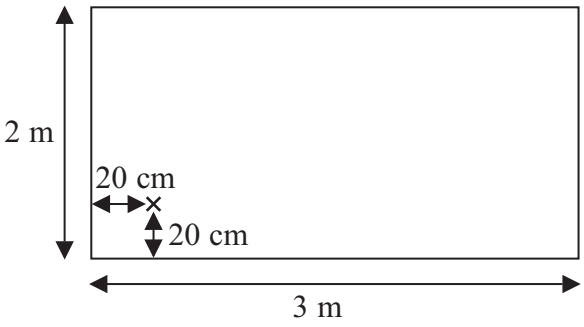


Diagram **NOT** accurately drawn

Harry will plant the first bean plant 20 cm from the edges of the garden, as shown in the diagram.

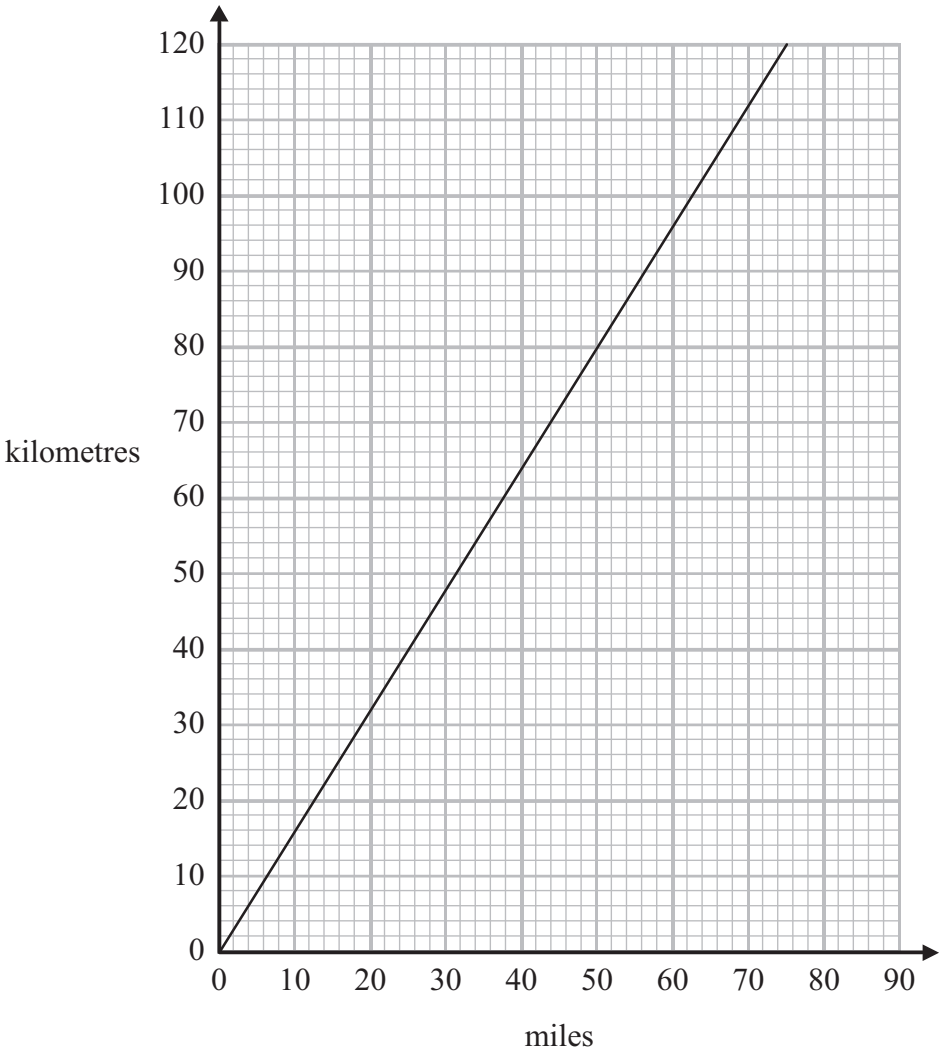
Harry will plant the bean plants in rows.
In each row, the space between plants will be 20 cm.
The space between rows will be 20 cm.

Work out the greatest number of bean plants Harry can plant in his garden.

.....

(Total for Question 12 is 4 marks)

***13** You can use this graph to change between miles and kilometres.



The distance from Paris to London is 280 miles.
The distance from Paris to Amsterdam is 500 kilometres.

Is Paris further from London or further from Amsterdam?
You must show how you get your answer.

(Total for Question 13 is 3 marks)

9 Amy is making a shelf unit for her DVDs.

She needs

3 pieces of wood of length 32 cm
and 2 pieces of wood of length 45 cm.

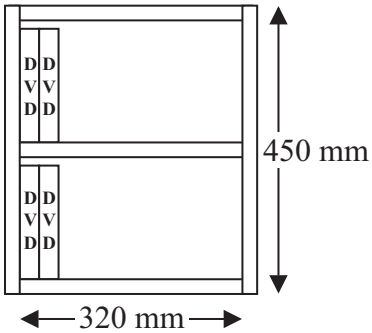
Amy has a piece of wood of length 2 metres.
She cuts the 5 pieces of wood she needs from the 2 metre length of wood.

(a) What length of wood does Amy have left from the 2 metre length?

.....

(3)

The diagram shows the shelf unit.



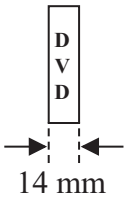


Diagram **NOT** accurately drawn

Amy will put DVDs on the 2 shelves, as shown in the diagram.
Each DVD has a width of 14 mm.

(b) What is the greatest number of DVDs Amy can put on the 2 shelves?

.....

(3)

(Total for Question 9 is 6 marks)

11 Here are parts of two train timetables.

Melton Mowbray to Peterborough				
Melton Mowbray	06 31	06 53	07 34	08 34
Oakham	06 43	07 05	07 45	08 45
Stamford	06 57	07 19	08 01	09 01
Peterborough	07 10	07 33	08 16	09 16

Peterborough to York					
Peterborough	07 05	07 45	07 58	08 15	09 15
Newark	07 37	—	08 30	08 43	09 43
Doncaster	08 09	—	09 00	09 09	10 09
York	08 31	08 50	09 27	09 32	10 32

James lives in Stamford.
He is going to a meeting in York.

James will travel by train from Stamford to Peterborough.
He will then travel by train from Peterborough to York.

It will take James 30 minutes to walk from the station in York to his meeting.

His meeting starts at 10 00

Plan a schedule for his journey to York.

Schedule	Time
Train leaves Stamford	
Train arrives in Peterborough	
Train leaves Peterborough	
Train arrives in York	
James arrives at meeting	

(Total for Question 11 is 3 marks)

22 Margaret is on holiday in France.

She buys an English newspaper.
The cost of the newspaper is 5 euros.
In England, the cost of the same newspaper is £2.50

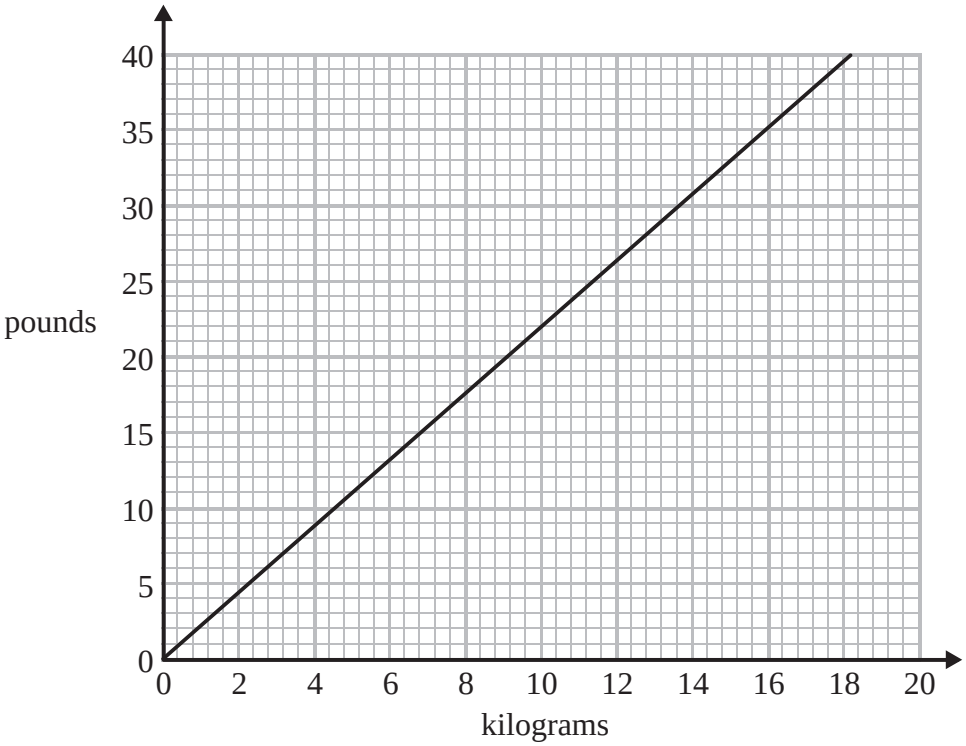
The exchange rate is £1 = 1.16 euros.

Work out the difference between the cost of the newspaper in France and the cost of the newspaper in England.

.....

(Total for Question 22 is 3 marks)

10 You can use this graph to change between pounds and kilograms.



(a) Change 13 pounds to kilograms.

..... kilograms
(1)

A trolley can carry a maximum weight of 200 pounds.

Jack has 4 bags of potatoes.
Each bag of potatoes weighs 25 kilograms.

*(b) Can the trolley carry the 4 bags of potatoes at the same time?
You must show your working.

(3)

(Total for Question 10 is 4 marks)

***14** Here is information about the maximum size of a small parcel.

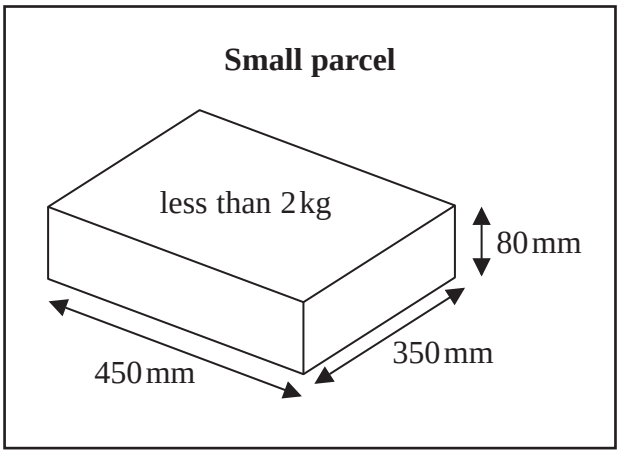


Diagram **NOT** accurately drawn

A small parcel must have

a weight less than 2 kg
and maximum dimensions 450 mm by 350 mm by 80 mm

Kamil has three boxes.
Each box weighs 600 g.
Each box is 40 cm by 21 cm by 2.5 cm.

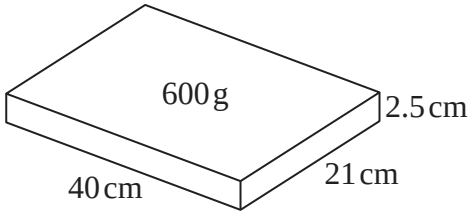
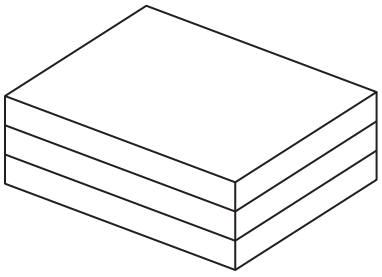


Diagram **NOT** accurately drawn

Kamil puts the three boxes together to make one parcel.



Kamil says that this parcel is a small parcel.

Is Kamil correct?
You must give reasons for your answer.

(Total for Question 14 is 4 marks)

***15** Andy cycles to keep fit.
He wants to cycle a total of 70 km each week.

Andy went on four cycle rides last week.

Here are the distances he cycled.

18.2 km 14 km 250 m $20\frac{1}{2}$ km 12 050 m

Did Andy cycle a total of 70 km last week?
You must show how you got your answer.

(Total for Question 15 is 4 marks)

***25** The diagram shows the top of Levi's birthday cake.

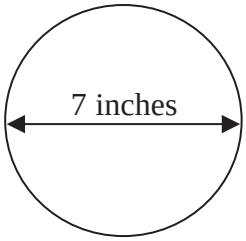


Diagram **NOT** accurately drawn

The top of the cake is in the shape of a circle.
The diameter of the circle is 7 inches.

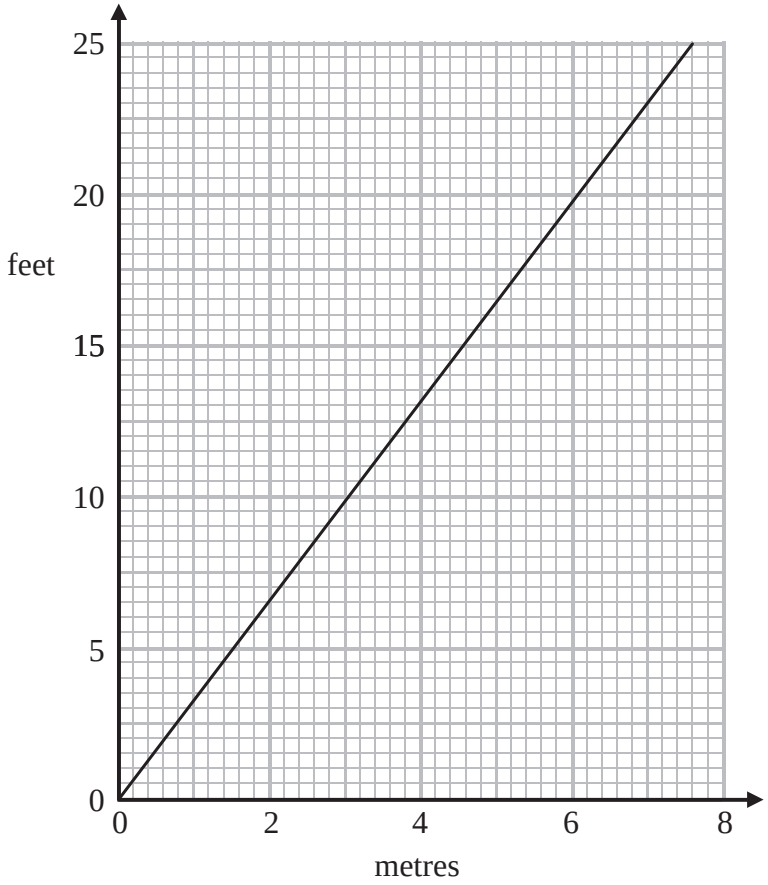
A ribbon is going to be put around the side of the cake.
Ribbons are sold in 50 cm lengths.

1 inch is 2.54 cm.

Work out if one length of ribbon is long enough to go all the way around the cake.
You must show your working.

(Total for Question 25 is 4 marks)

14 Here is a graph you can use to change between metres and feet.



An American space rocket is 360 feet tall.
A European space rocket is 50 metres tall.

The American space rocket is taller than the European space rocket.

How much taller?
You must show your working.

.....

(Total for Question 14 is 3 marks)

6 A farmer has 37 kg of potatoes.

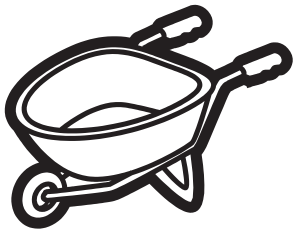
He puts some of the potatoes into a small sack.
He puts the rest of the potatoes into a large sack.

The total weight of the potatoes in the large sack is 13 kg more than the total weight of the potatoes in the small sack.

(a) What is the total weight of the potatoes in the small sack?

..... kg
(2)

There are 30 kg of potatoes in a wheelbarrow.



The farmer puts some carrots into the wheelbarrow.
The total weight of the potatoes and the carrots in the wheelbarrow is 110 pounds.

(b) What weight of carrots did the farmer put into the wheelbarrow?
1 kg = 2.2 pounds

.....
(4)

(Total for Question 6 is 6 marks)

2 Ruth is 1.23 m tall.

Lee is 6 cm shorter than Ruth.

How tall is Lee?

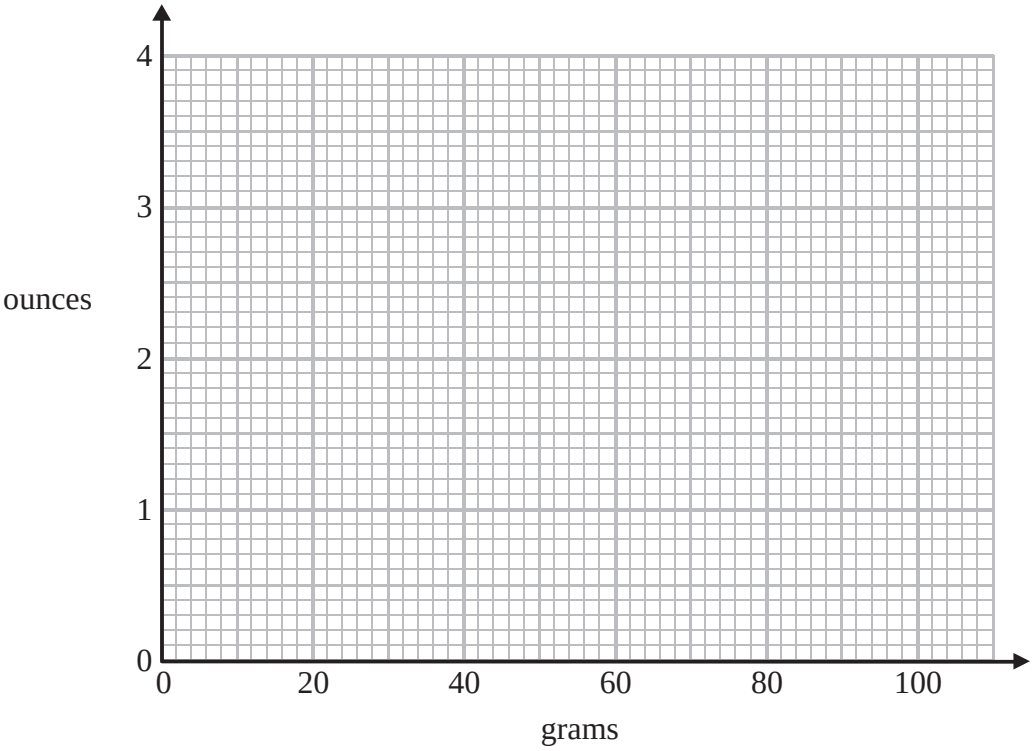
.....

(Total for Question 2 is 2 marks)

18 The table shows some weights in grams and the same weights in ounces.

grams	0	20	50	70	100
ounces	0	0.70	1.75	2.45	3.50

(a) On the grid, use this information to draw a line you can use to change between grams and ounces.



(2)

There are 24 eggs in a tray of eggs.

Each egg has a weight of 64 grams.
The tray has a weight of 1.6 ounces.

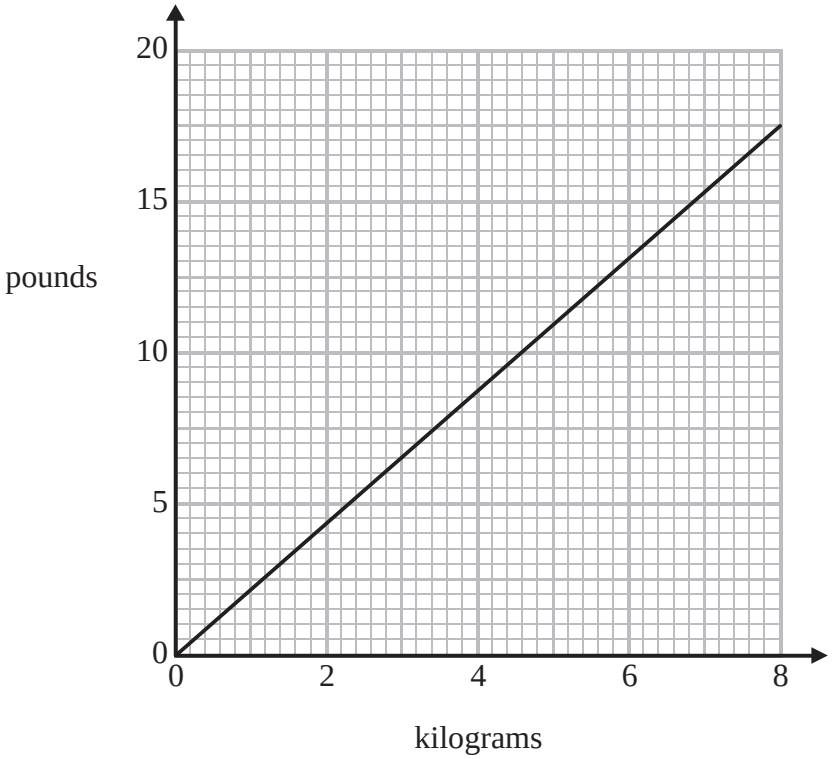
(b) Work out the total weight of the 24 eggs and the tray.

.....

(3)

(Total for Question 18 is 5 marks)

11 You can use this conversion graph to change between kilograms and pounds.



(a) Use the conversion graph to change 5 kilograms to pounds.

..... pounds
(1)

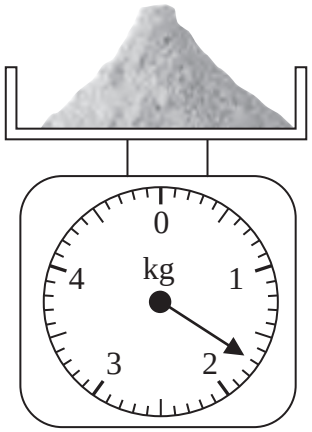
Brett weighs 150 pounds.
Henri weighs 64 kilograms.

(b) Work out their total weight.
Give your answer in kilograms.
You must show your working.

..... kilograms
(3)

(Total for Question 11 is 4 marks)

8 Emma puts some flour on a weighing scale.



Emma needs 2 kg of flour.

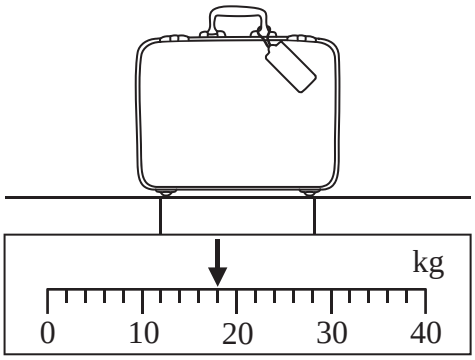
(a) How many more grams of flour does she need?

..... grams

(2)

Sanah's suitcase is weighed at an airport.

The weight of her suitcase is shown on the scale.



Sanah's suitcase weighs more than 15 kg, so she has to pay an excess baggage charge.
She has to pay £7 for each kg more than 15 kg.

(b) How much does Sanah have to pay?

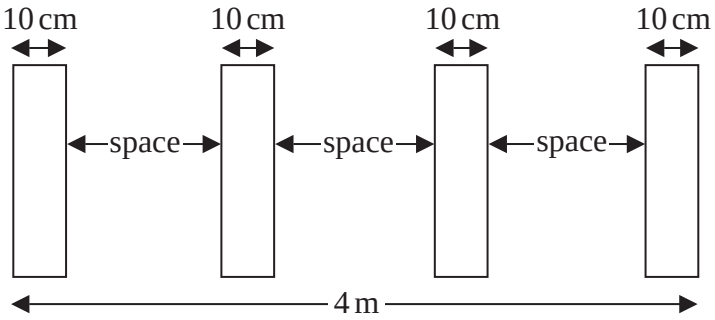
£ .....

(3)

(Total for Question 8 is 5 marks)

***10** Brian is making a fence.

Diagram **NOT** accurately drawn



The fence will be 4 m long.

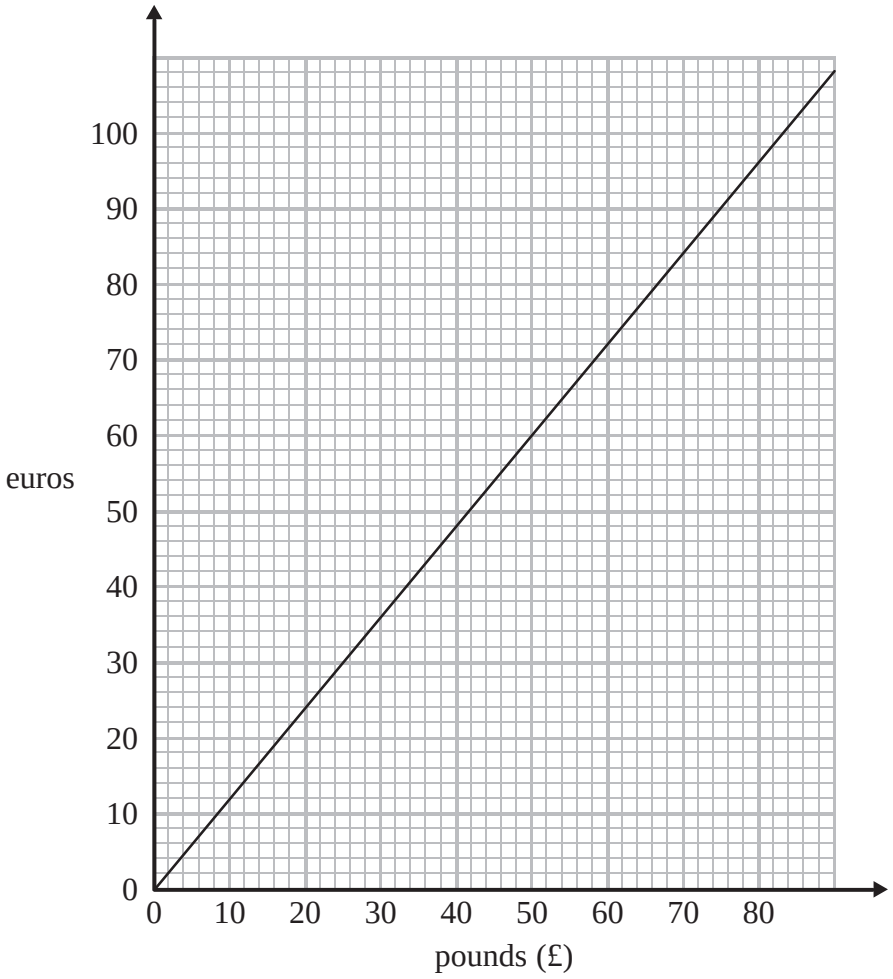
Brian uses four posts.
Each post has a width of 10 cm.

Brian wants to have spaces of equal width between the posts.

Work out the width of each space.
You must show your working.

(Total for Question 10 is 4 marks)

15 You can use this conversion graph to change between pounds (£) and euros.



(a) Change £55 into euros.

..... euros

(1)

(b) Change 150 euros into pounds (£).

£.....

(2)

(Total for Question 15 is 3 marks)

***15** Tina is going from London to the French town of Lille.

Tina will drive from London to Dover.
She will go on the ferry from Dover to Calais.
She will then drive from Calais to Lille.

The distance from London to Dover is 80 miles.
The distance from Calais to Lille is 120 km.

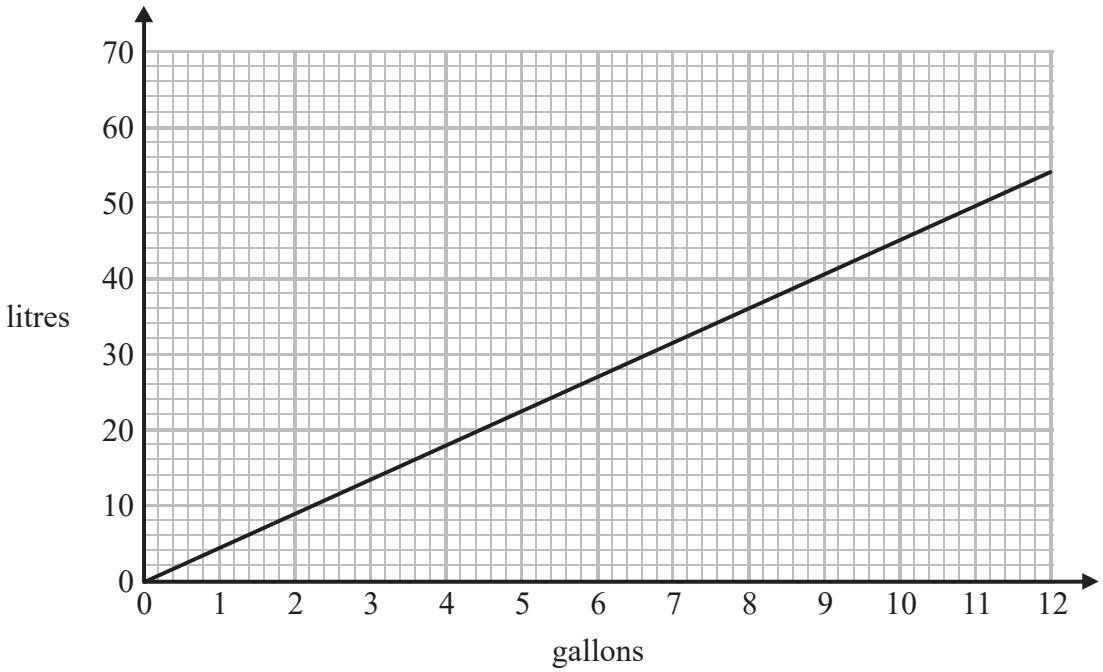
5 miles = 8 km

Tina has enough fuel in her car to drive 150 miles.

Does she have enough fuel to get from London to Lille?
You must show all your working.

(Total for Question 15 is 3 marks)

9 You can use this graph to change between gallons and litres.



(a) Change 36 litres to gallons.

..... gallons

(1)

The fuel tank of a bus holds 450 litres of fuel when completely full.

The fuel tank is empty.

Kerrie puts 90 gallons of fuel in the fuel tank.

*(b) Is the fuel tank completely full?
You must show how you get your answer.

(3)

(Total for Question 9 is 4 marks)

24 Identical pairs of boots are sold in London, in Geneva and in Paris.

These boots have a price of

£115 in London
189 Swiss francs in Geneva
174 euros in Paris

The exchange rates are

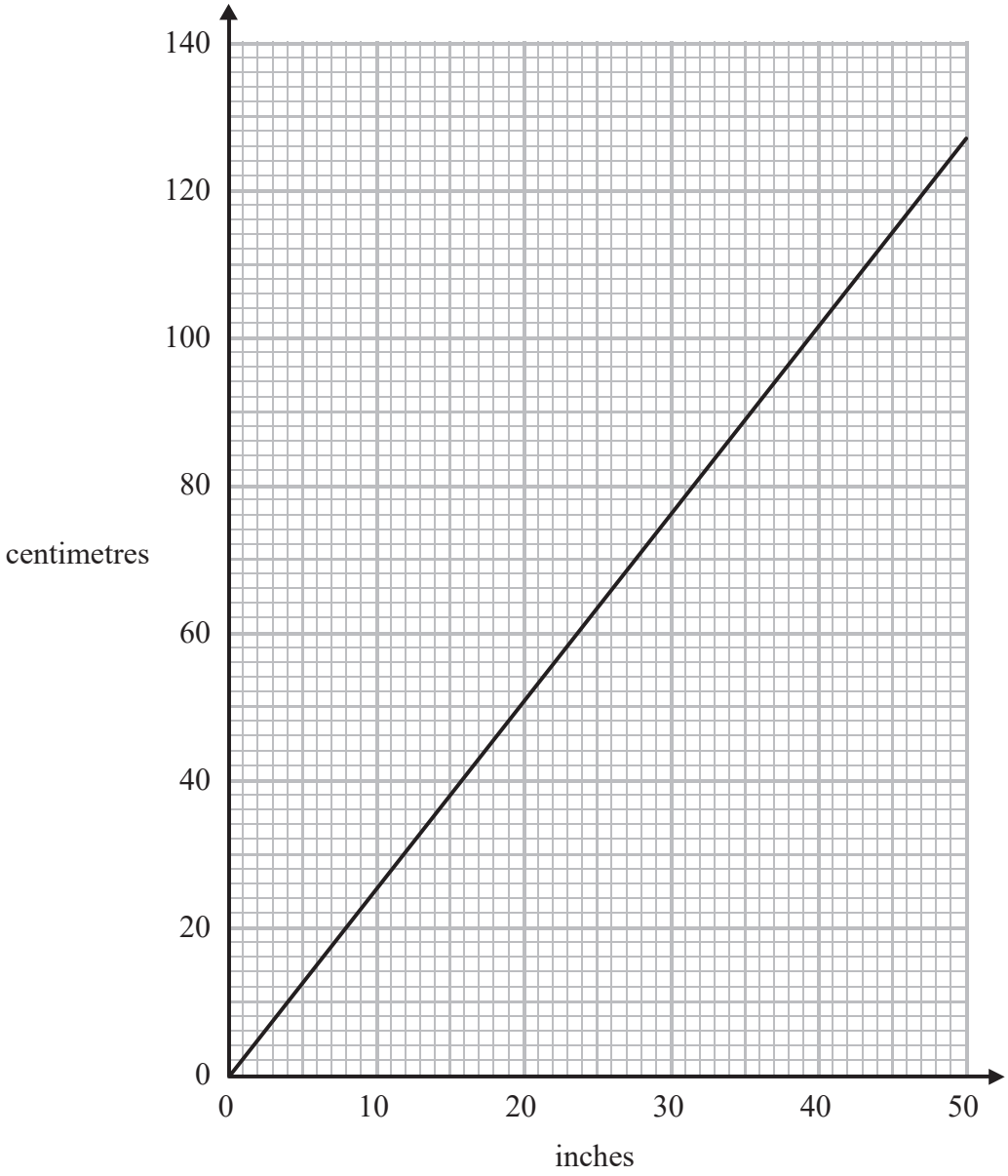
£1 = 1.39 Swiss francs
£1 = 1.27 euros

Are the boots the best value for money in London or in Geneva or in Paris?
You must show how you get your answer.

.....

(Total for Question 24 is 3 marks)

11 You can use this graph to change between inches and centimetres.



(a) Change 74 cm to inches.

..... inches

(1)

Daniel's height is 6 feet 3 inches.

1 foot = 12 inches

(b) What is Daniel's height in centimetres?

..... centimetres
(3)

(Total for Question 11 is 4 marks)

14 Andy went on holiday to Canada.
His flights cost a total of £1500

Andy stayed for 14 nights.
His hotel room cost $196 per night.

Andy used wifi for 12 days.
Wifi cost $5 per day.

The exchange rate was $1.90 to £1

(a) Work out the total cost of the flights, the hotel room and wifi.
Give your answer in pounds.

£.....

(5)

(b) If there were fewer dollars to £1, what effect would this have on the total cost, in pounds, of Andy's holiday?

.....

(1)

(Total for Question 14 is 6 marks)

Question 60

1 (a) Change 365 cm into metres.

..... m

(1)

(b) Change 2.7 kg into grams.

..... g

(1)

(Total for Question 1 is 2 marks)

Question 61

June 2018 | 1MA1/2F | Original Q5

5 (a) Change 35 cm to mm.

..... mm
(1)

(b) Change 7700 millilitres to litres.

..... litres
(1)

(c) Change 0.32 kilograms to grams.

..... grams
(1)

(Total for Question 5 is 3 marks)

Question 62

7 Shaun is 1.88 m tall.

David is 6 cm taller than Shaun.

How tall is David?

.....

(Total for Question 7 is 2 marks)

Question 63

4 Change 1756 grams to kilograms.

.....kg

(Total for Question 4 is 1 mark)

Question 64

3 Change 1.5 kilometres to metres.

..... metres

(Total for Question 3 is 1 mark)

Question 65

21 Liz goes on holiday to South Africa.

Liz wants to change £850 into South African rand.
She wants to get as many 200 rand notes as possible.

The exchange rate is £1 = 18.53 rand.

Work out the greatest number of 200 rand notes that Liz can get for £850

.....

(Total for Question 21 is 3 marks)

12 Rehan is on holiday in the USA.

He has \$200 to spend on clothes.

Rehan buys
1 pair of trainers costing \$60
3 T-shirts costing \$25 each.

He also wants to buy a jacket costing \$80

(a) Has Rehan got enough money to buy the jacket?
You must show how you get your answer.

(3)

The trainers cost \$60
The exchange rate is \$1 = £0.749

Rehan says,
"The trainers cost less than £40"

Rehan is wrong.

(b) Using a suitable approximation, show working to explain why.

(2)

(Total for Question 12 is 5 marks)

10 Here is the charge at a car park in Spain.

Car park
0.024 euros per minute

Jon parked his car in this car park.

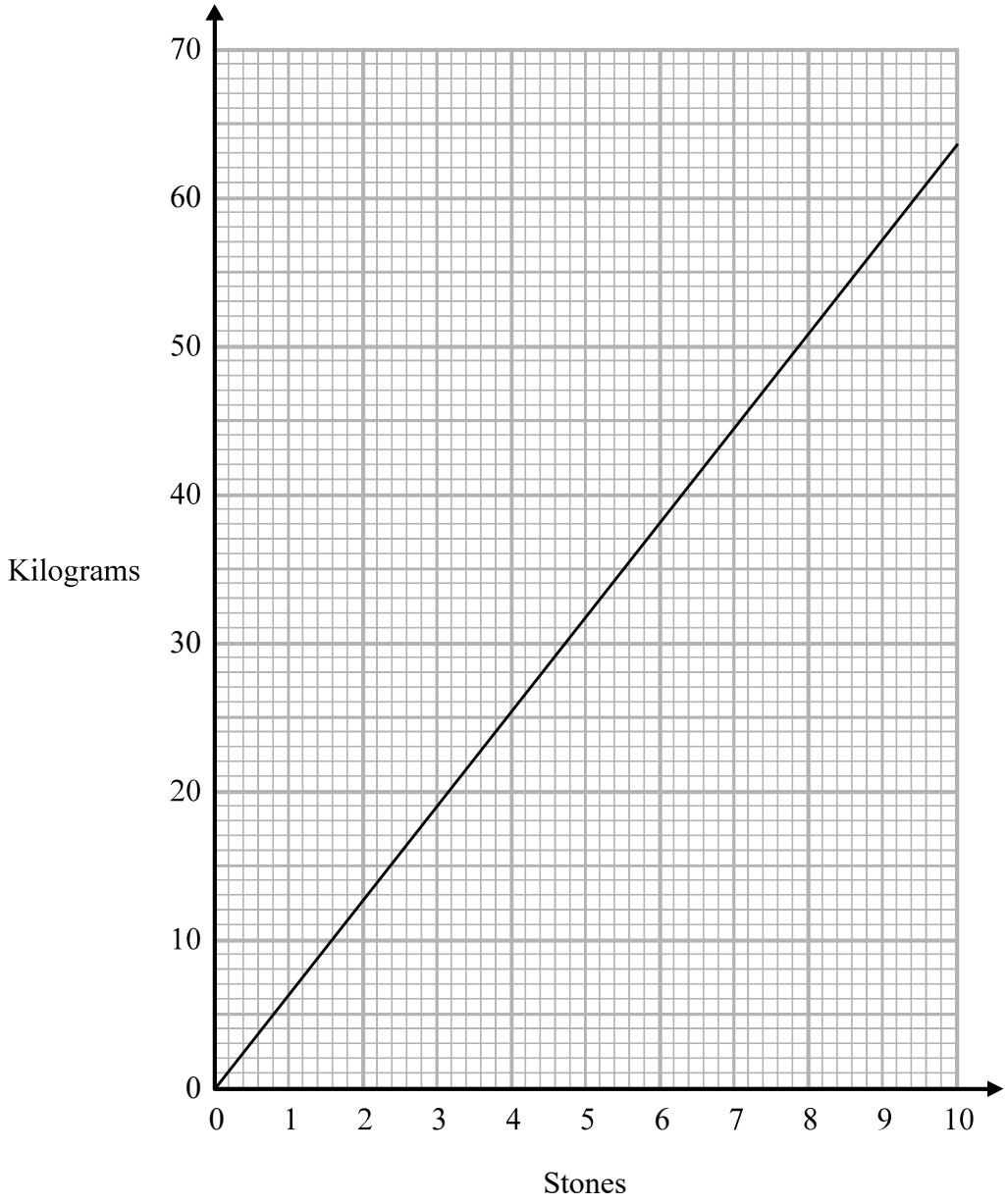
Jon drove into the car park at 10 45
When he drove out of the car park he had to pay 8.40 euros.

At what time did Jon drive out of the car park?

.....

(Total for Question 10 is 3 marks)

11 You can use this graph to change between stones and kilograms.



(a) Change 3 stones to kilograms.

..... kilograms
(1)

(b) Change 80 kilograms to stones.

..... stones
(2)

(Total for Question 11 is 3 marks)

Question 69

November 2019 | 1MA1/2F | Original Q15

15 The length of a plane is 19.2 metres.

Lukas buys a scale model of the plane.
The scale of the model is 1 : 24

Work out the length of the scale model of the plane.
Give your answer in centimetres.

..... centimetres

(Total for Question 15 is 3 marks)

5 Change 4 kilometres into metres.

..... metres

(Total for Question 5 is 1 mark)

Question 71

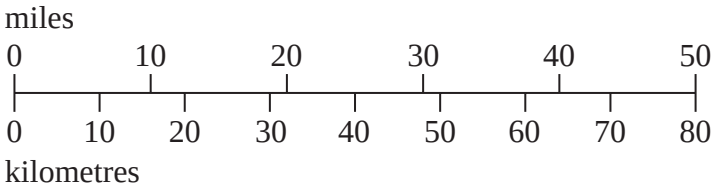
November 2019 | 1MA1/3F | Original Q26

26 Write $37\,cm^3$ in mm^3

..... mm^3

(Total for Question 26 is 1 mark)

9 This scale can be used to change between kilometres and miles.



(a) Use the scale to change 40 kilometres to miles.

..... miles

(1)

Here is an approximate rule to change from kilometres to miles.

Divide the distance in kilometres by 10 and then multiply by 6

(b) Use this approximate rule to change 40 kilometres to miles.

..... miles

(2)

(c) Compare your answer to part (b) with your answer to part (a).

.....

.....

.....

(1)

(Total for Question 9 is 4 marks)

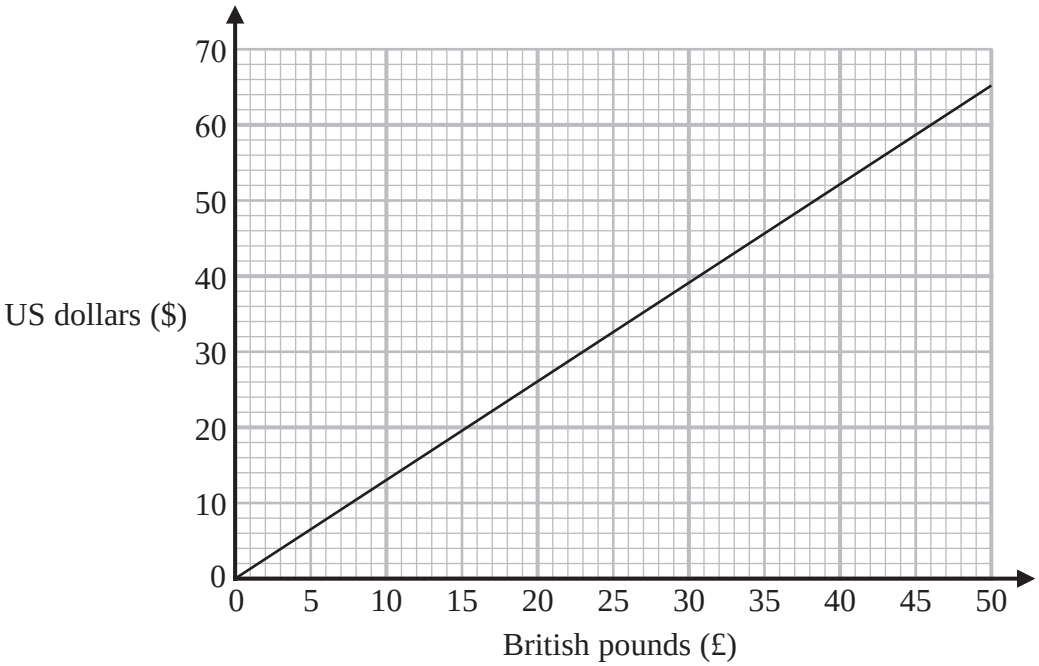
Question 73

1 Change 300 centimetres into metres.

..... metres

(Total for Question 1 is 1 mark)

18 This graph can be used to change between US dollars ($) and British pounds (£).



Rosie bought a ring in the USA.
She paid 345 US dollars.

Work out in pounds the amount Rosie paid for the ring.

£ .....

(Total for Question 18 is 3 marks)

2 Change 3 metres into centimetres.

..... centimetres

(Total for Question 2 is 1 mark)

Question 76

1 Change 40 centimetres into millimetres.

..... millimetres

(Total for Question 1 is 1 mark)

Question 77

29 Change 30 metres per second to kilometres per hour.

..... kilometres per hour

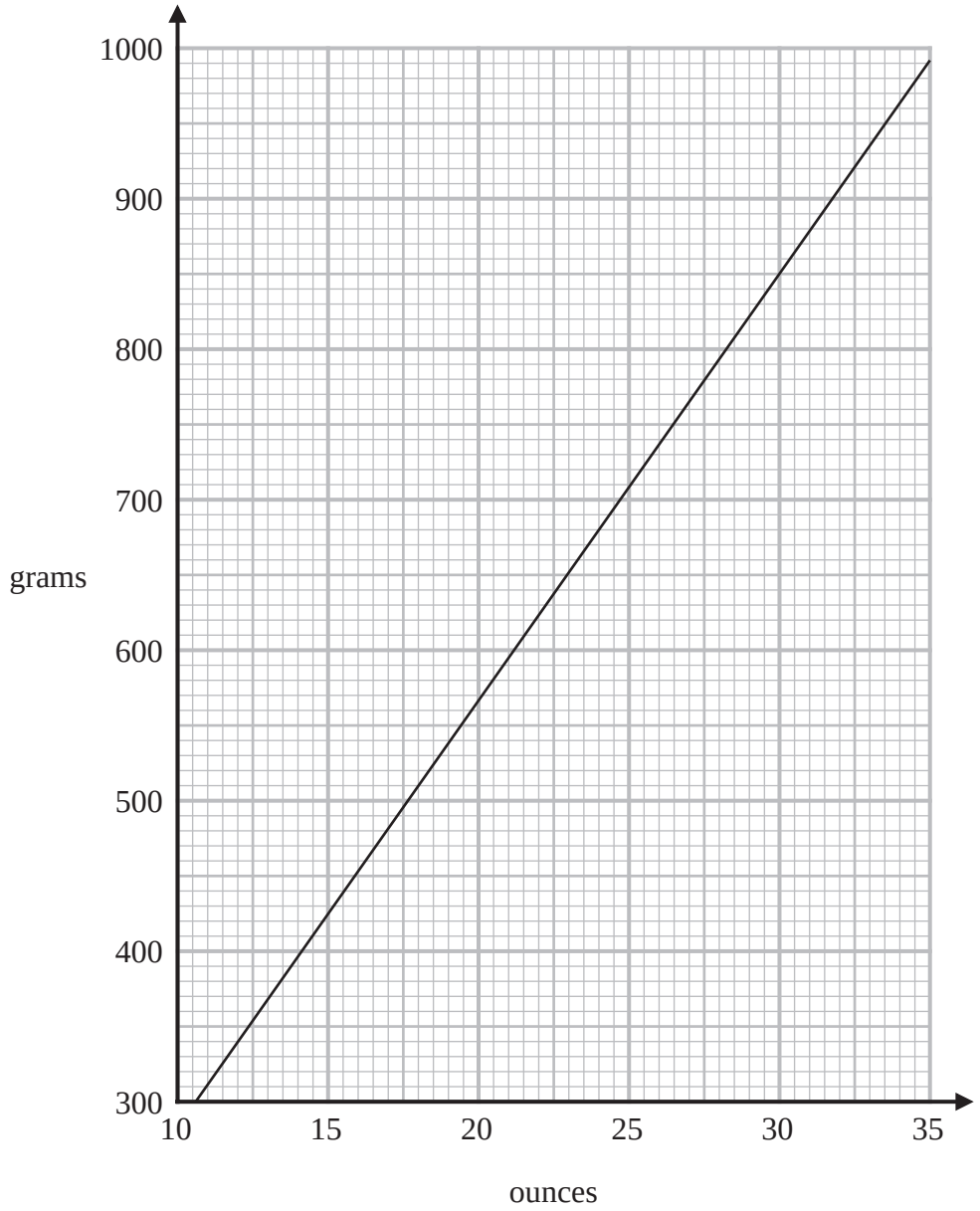
(Total for Question 29 is 2 marks)

4 Change 53 centimetres to millimetres.

..... millimetres

(Total for Question 4 is 1 mark)

14 You can use this graph to change between ounces and grams.



(a) Change 850 grams to ounces.

..... ounces
(1)

(b) Change 80 ounces to grams.

..... grams
(2)

(Total for Question 14 is 3 marks)

27 (a) Change 8000 cm^3 to m^3

..... m^3
(1)

(b) Change a speed of 180 km per hour to metres per second.

..... metres per second
(3)

(Total for Question 27 is 4 marks)

3 Change 9 metres into centimetres.

..... centimetres

(Total for Question 3 is 1 mark)

4 Change 4000 grams into kilograms.

..... kilograms

(Total for Question 4 is 1 mark)

Question 83

3 Change 7 metres to centimetres.

..... centimetres

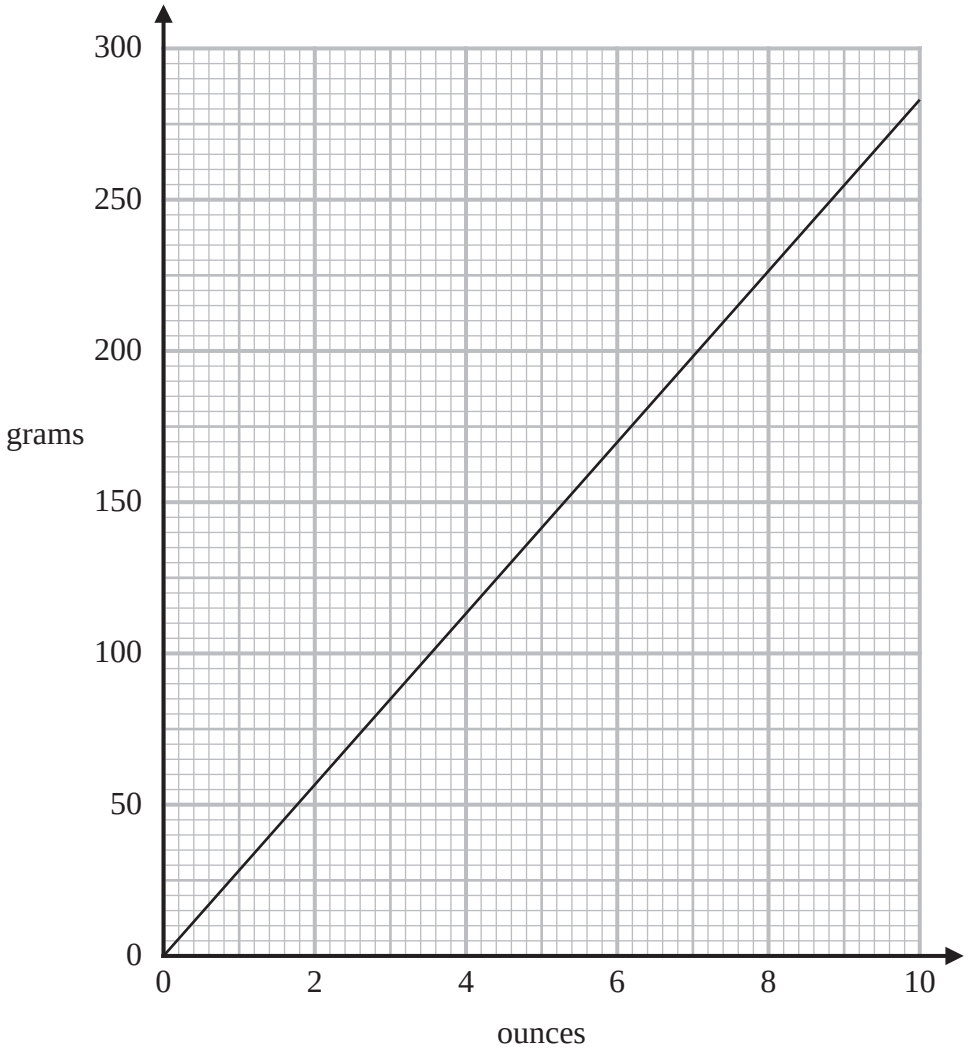
(Total for Question 3 is 1 mark)

2 Change 5000 millilitres to litres.

..... litres

(Total for Question 2 is 1 mark)

16 You can use this graph to change between ounces and grams.



(a) Change 6 ounces to grams.

..... grams

(1)

(b) Change 1 kg to ounces.

..... ounces

(2)

(Total for Question 16 is 3 marks)

2 Change 800 centimetres to metres.

..... metres

(Total for Question 2 is 1 mark)

3 Change 15 centimetres into millimetres.

..... millimetres

(Total for Question 3 is 1 mark)

22

Choci bar
200 g
£3.50

London

Choci bar
360 g
7.20 Swiss francs

Zurich

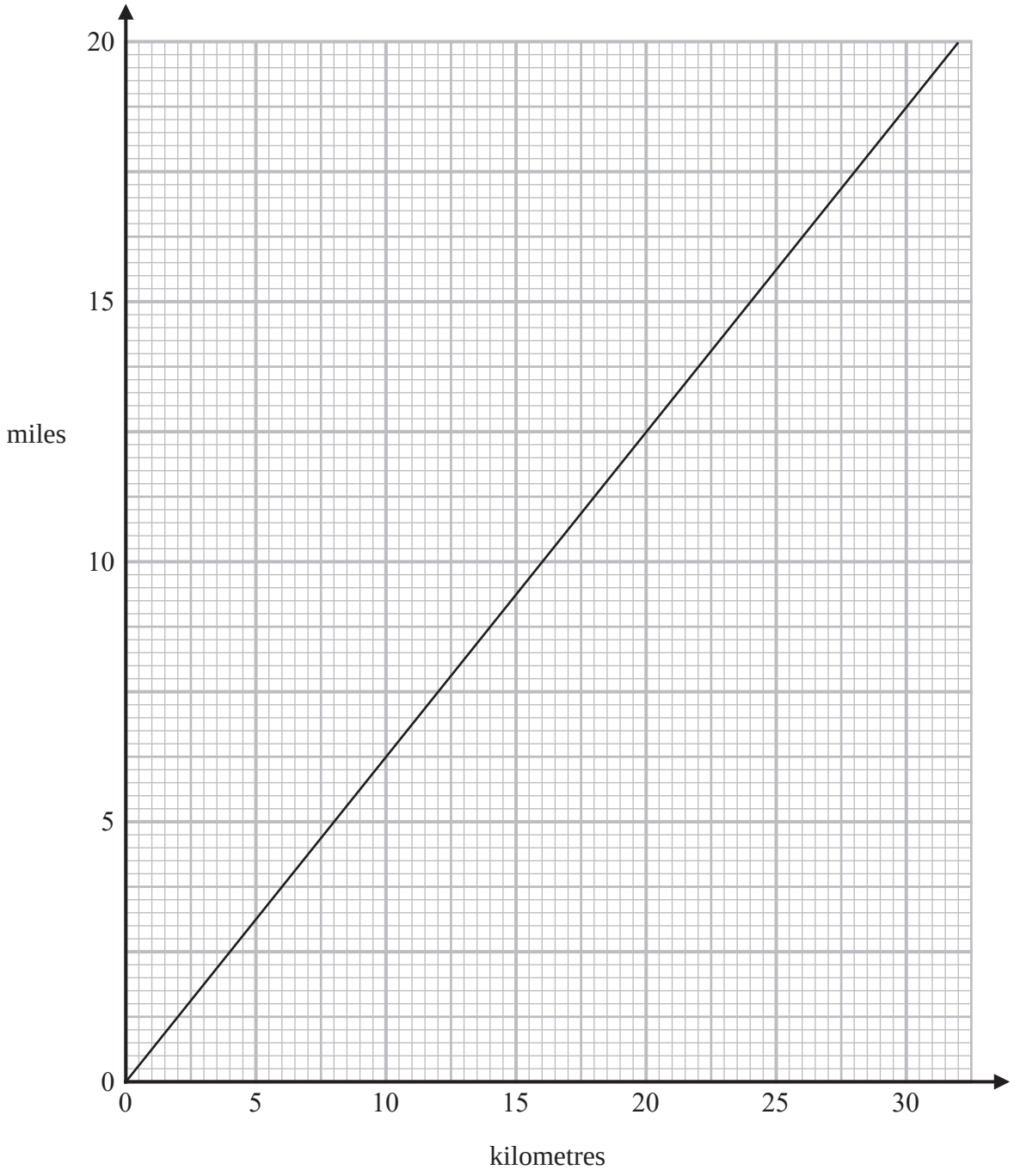
In London, a 200 g Choci bar costs £3.50
In Zurich, a 360 g Choci bar costs 7.20 Swiss francs.

The exchange rate is £1 = 1.25 Swiss francs.

In which city is the Choci bar the better value for money, in London or in Zurich?
You must show how you get your answer.

(Total for Question 22 is 3 marks)

11 You can use this graph to change between miles and kilometres.



(a) Change 10 miles into kilometres.

..... kilometres
(1)

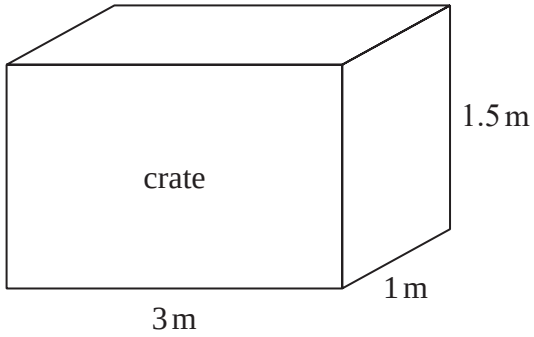
Rob drives 17 miles from Bridlington to Scarborough.
He then drives 50 kilometres from Scarborough to Staithes.

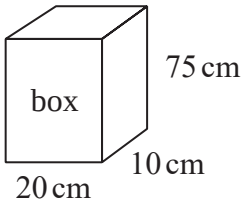
(b) What is the total distance Rob drives?
Give your answer in miles.

..... miles
(3)

(Total for Question 11 is 4 marks)

13 The diagram shows a crate and a box.





The crate is 3 m by 1 m by 1.5 m.
The crate is completely filled with boxes.
Each box is 20 cm by 10 cm by 75 cm.

Work out the number of boxes in the crate.

.....

(Total for Question 13 is 4 marks)

Question 91

3 Change 60 millimetres into centimetres.

..... centimetres

(Total for Question 3 is 1 mark)