



GCSE

3310U10 – 1

THURSDAY, 8 MAY 2025 – MORNING

**MATHEMATICS – NUMERACY
UNIT 1: NON – CALCULATOR
FOUNDATION TIER**

**1 hour 30 minutes plus your additional
time allowance**

**THE USE OF A CALCULATOR IS NOT
PERMITTED IN THIS EXAMINATION**

Surname: _____

First name(s): _____

Centre Number: _____

Candidate Number: 0 _____

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	7	
2.	10	
3.	5	
4.	10	
5.	5	
6.	11	
7.	3	
8.	3	
9.	7	
10.	4	
Total	65	

ADDITIONAL MATERIALS

A ruler, protractor and pair of compasses may be required.

ITEMS INCLUDED WITH QUESTION PAPER

A separate Formula List.

A separate Diagram Booklet.

**Models for Question 3 (a) and
Question 6 (c).**

**The Diagram Booklet MUST be handed
in to the invigilators and sent for
marking.**

(Turn over)

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball–point pen, black felt tip or your usual method.

Write your name, centre number and candidate number in the spaces on the front cover.

Answer ALL questions in the spaces provided.

If you run out of space, use the additional page(s) at the back of this booklet.

Question numbers must be given for all work written on the additional page(s).

Take π as $3 \cdot 14$

(Turn over)

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part – question.

In question 4, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.

(Turn over)

- 1. Dafydd was celebrating his birthday.
He asked his friends to choose one
activity.**

**They could choose cinema,
trampolining or bowling.**

**Look at the table for Question 1 in the
separate Diagram Booklet. The table
shows the results.**

continued on the next page . . .

Question 1 continued

1. (a) Dafydd says,
“Cinema is more popular
than trampolining.”

Is Dafydd correct?

**You must show working to support
your answer.**

Yes

☐

No

☐

(Turn over)

[1 mark]

1. (b) 15 of Dafydd's friends said they preferred bowling.

How many of Dafydd's friends were there altogether?

[1 mark]

continued on the next page . . .

(Turn over)

Question 1 continued

1. (c) Dafydd and his friends decide to take the train from Briton Ferry to Cardiff.

Dafydd finds the following information on the internet.

Briton Ferry	Departs	17:31
Cardiff	Arrives	18:19

How many minutes will the journey take?

(Turn over)

[2 marks]

continued on the next page . . .

(Turn over)

Question 1 continued

- 1. (d) 20 people go bowling on Dafydd's birthday.**

The cost is £10.50 per person.

They pay using the following offer.

**Pay full price for 1 person and
the second person pays half price.**

**How much will it cost the
20 people to go bowling using
this offer?**

(Turn over)

[3 marks]

(Turn over)

- 2. (a) Look at the diagram for Question 2 (a) in the separate Diagram Booklet. The diagram is a chart.**

Local authorities in Wales recycle household waste.

The chart shows the percentages of waste that some local authorities recycled in 2021 and 2022.

continued on the next page . . .

(Turn over)

Question 2 (a) continued

- 2. (a) (i) How many of these local authorities recycled a greater percentage of waste in 2022 than they recycled in 2021?**

[1 mark]

continued on the next page . . .

(Turn over)

Question 2 (a) continued

2. (a) (ii) In 2022, four of the local authorities recycled 70% or more of their household waste.

Name these four local authorities.

[2 marks]

continued on the next page . . .

(Turn over)

Question 2 (a) continued

2. (a) (iii) In 2022:

- 65.2% of household waste was recycled in Wales**
- 59.7% of household waste was recycled in Caerphilly.**

**Calculate the difference
between these two
percentages.**

(Turn over)

[2 marks]

continued on the next page . . .

(Turn over)

Question 2 continued

- 2. (b) Look at the diagram for Question 2 (b) in the separate Diagram Booklet. The diagram is a bar chart. The bar chart shows the percentage of waste recycled in the UK in 2020.**

Write down TWO things that are wrong with the bar chart.

1. _____

2. _____

(Turn over)

[2 marks]

continued on the next page . . .

(Turn over)

Question 2 continued

- 2. (c) Look at Diagram 1 for Question 2 (c) in the separate Diagram Booklet. The diagram is NOT drawn to scale. The diagram shows a square tile and a rectangular tile.**

Kristian tries to recycle as much as possible.

He had some spare square and rectangular tiles, as shown in the diagram.

Rather than replace his garden table, Kristian used his spare tiles to tile the top of the table.

continued on the next page . . .

(Turn over)

Question 2 (c) continued

Look at Diagram 2 for Question 2 (c) in the separate Diagram Booklet. The diagram is NOT drawn to scale. The diagram shows Kristian's tiled table top.

Kristian wants to put a border around the perimeter of the table. What length of border will he need?

(Turn over)

21

[3 marks]

(Turn over)

3. Ellie wants to decorate her living room.

(a) She sees paint that she likes in her local DIY shop.

The paint is sold in 2 – litre tins and 8 – litre tins.

Ask for the models for Question 3 (a).

The models are NOT made to scale.

Model X represents the 2 – litre tin of paint.

Model Y represents the 8 – litre tin of paint.

Tin X costs £9

Tin Y costs £40

continued on the next page . . .

(Turn over)

Question 3 (a) continued

3. (a) (i) Which size tin of paint is the better value?

You must show all your working.

2 litres

☐

8 litres

☐

(Turn over)

[2 marks]

3. (a) (ii) What is the name given to the 3D shape that best represents the tins of paint.

Circle your answer.

Sphere
Cylinder
Cube
Cone
Cuboid

[1 mark]

continued on the next page . . .

(Turn over)

Question 3 continued

- 3. (b) Ellie pays a decorator to paint her living room.**

**Look at the formula for
Question 3 (b) in the separate
Diagram Booklet.**

**The decorator uses this formula to
calculate the total cost.**

**The decorator takes 7 hours to
paint Ellie's living room.**

How much does Ellie pay?

(Turn over)

[2 marks]

(Turn over)

- 4. IN THIS QUESTION, YOU WILL BE ASSESSED ON THE QUALITY OF YOUR ORGANISATION, COMMUNICATION AND ACCURACY IN WRITING.**

Angharad has a food truck.

She sells hotdogs at festivals.

Each hotdog consists of a bread roll and a sausage.

Look at the table for Question 4 in the separate Diagram Booklet. The table shows Angharad's costs for a festival last month.

continued on the next page . . .

(Turn over)

Question 4 continued

Angharad bought enough bread rolls and sausages to make 300 hotdogs. She sold all the hotdogs for £5 each.

**What was Angharad's total profit?
You must show all your working.**

(Turn over)

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

30

[8 marks + 2 marks OCW]

(Turn over)

5. Look at the diagram for Question 5 in the separate Diagram Booklet.

The diagram shows a conversion graph for furlongs and yards.

Furlongs and yards are both measures of length.

In the past, these measures were used in farming.

The conversion graph can be used to convert between furlongs and yards.

Complete each of the following statements.

**(a) 330 yards is equal to
_____ furlongs.**

(Turn over)

[1 mark]

5. (b) 7 furlongs is equal to
_____ yards.

[2 marks]

continued on the next page . . .

(Turn over)

Question 5 continued

**5. (c) 1320 yards is equal to
_____ furlongs.**

[2 marks]

(Turn over)

6. Viktor is a farmer.

(a) Viktor wants to buy some animal feed for his sheep.

Look at the information for Question 6 (a) in the separate Diagram Booklet.

He can EITHER buy a bag of Sean Sheep Mix or a bag of Rugged Sheep Mix.

Which of these two animal feeds is cheaper and by how much?

[illegible]

(Turn over)

_____ **Sheep Mix is cheaper**
It is cheaper by £ _____

[5 marks]

continued on the next page . . .

(Turn over)

Question 6 continued

6. (b) Viktor sells butter and ice cream in his farm shop.

**He sells his butter in
250 g packets.**

Each packet costs £3.25

**Sioned buys 500 g of butter and
1.5 litres of ice cream.**

**She pays a total of £18.50 for the
butter and the ice cream.**

**Calculate the cost of 1 litre of
ice cream.**

(Turn over)

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

1 litre of ice cream costs £ _____

[4 marks]

continued on the next page . . .

Question 6 continued

- 6. (c) Ask for the model for Question 6 (c). The model is NOT made to scale. The model represents a water trough.**

Viktor orders a new water trough for his cows.

It is in the shape of a cuboid.

The internal measurements are:

**length 4 m, width 0.5 m
and height 0.8 m.**

Calculate the capacity of the new water trough in m^3

(Turn over)

Capacity is _____ **m³**

[2 marks]

(Turn over)

7. Look at the diagram for Question 7 in the separate Diagram Booklet.

The diagram is a pie chart.

The diagram IS accurately drawn.

Ralph completed a survey.

He asked people to describe where they live.

Ralph's results are shown on the accurately – drawn pie chart.

In Ralph's survey, 480 people answered 'Town or city'.

Calculate the number of people who answered 'Seaside' in Ralph's survey.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

8. Look at the information for Question 8 in the separate Diagram Booklet.

A survey was carried out to find how many books children read during the holidays.

The information shows the two questions that were asked in a questionnaire.

(a) (i) Give ONE reason why Q1 was NOT a suitable question.

[1 mark]

continued on the next page . . .

(Turn over)

Question 8 (a) continued

8. (a) (ii) Give ONE reason why Q2 was NOT a suitable question.

[1 mark]

continued on the next page . . .

(Turn over)

Question 8 continued

- 8. (b) The survey was carried out by asking children as they left the library on a Saturday morning. Give ONE criticism of how the survey was carried out.**

[1 mark]

(Turn over)

- 9. On a flight to Spain, the cabin crew started serving drinks to passengers at 11:00 a.m.**

The flight manager recorded the length of time each passenger had to wait to be served.

Look at the diagram for Question 9 in the separate Diagram Booklet.

The diagram is a frequency diagram.

The flight manager has drawn this frequency diagram to display her findings.

continued on the next page . . .

(Turn over)

Question 9 continued

**She used groups of width
10 minutes:**

$0 \leq \text{time} < 10$, $10 \leq \text{time} < 20$, and so on.

- 9. (a) How many passengers waited less
than 10 minutes to be served?**

[1 mark]

continued on the next page . . .

(Turn over)

Question 9 continued

9. (b) How many passengers were on this flight to Spain?

[2 marks]

continued on the next page . . .

(Turn over)

Question 9 continued

- 9. (c) What fraction of the total number of passengers had to wait 40 minutes or more to be served a drink?**

Express your answer in its simplest form.

(Turn over)

[2 marks]

9. (d) What is the modal group of these recorded times?

[1 mark]

continued on the next page . . .

(Turn over)

Question 9 continued

9. (e) The flight manager says,

Consider the passengers who waited between 30 minutes and 40 minutes to be served.

If 8 of these passengers had been served 10 minutes faster, the modal group would have been different.

Is the flight manager correct?

Give a reason for your answer.

Yes ☐

No ☐

(Turn over)

[1 mark]

10. Ewan keeps bees and sells jars of honey.

He buys two different sizes of jar for the honey.

- **An empty small jar costs 12p and can hold 200 ml of honey.**
- **An empty large jar costs 20p and can hold 500 ml of honey.**

Ewan works out how much to charge for each jar of honey, by:

- **calculating the cost of the honey in the jar**
- **adding on the amount he paid for the jar.**

continued on the next page . . .

(Turn over)

Question 10 continued

For both sizes of jar, Ewan charges the SAME PRICE PER 100 ml for the honey itself.

Ewan charges his customers £3.40 for a 500 ml jar of honey.

This price is for the honey and the jar.

How much should Ewan charge for a 200 ml jar of honey?

You must show all your working.

(Turn over)

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

[4 marks]

END OF PAPER

TOTAL 65 MARKS

(Turn over)

[illegible]

(Turn over)

Question number	Additional pages, if required. Write the question number(s) in the left – hand margin.

(Turn over)

[illegible]



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**MATHEMATICS – NUMERACY
UNIT 1: NON – CALCULATOR
FOUNDATION TIER**

Diagram Booklet

**The Diagram Booklet MUST be handed in
to the invigilators and sent for marking.**

Surname: _____

First name(s): _____

Centre Number: _____

Candidate Number: 0 _____

Question 1

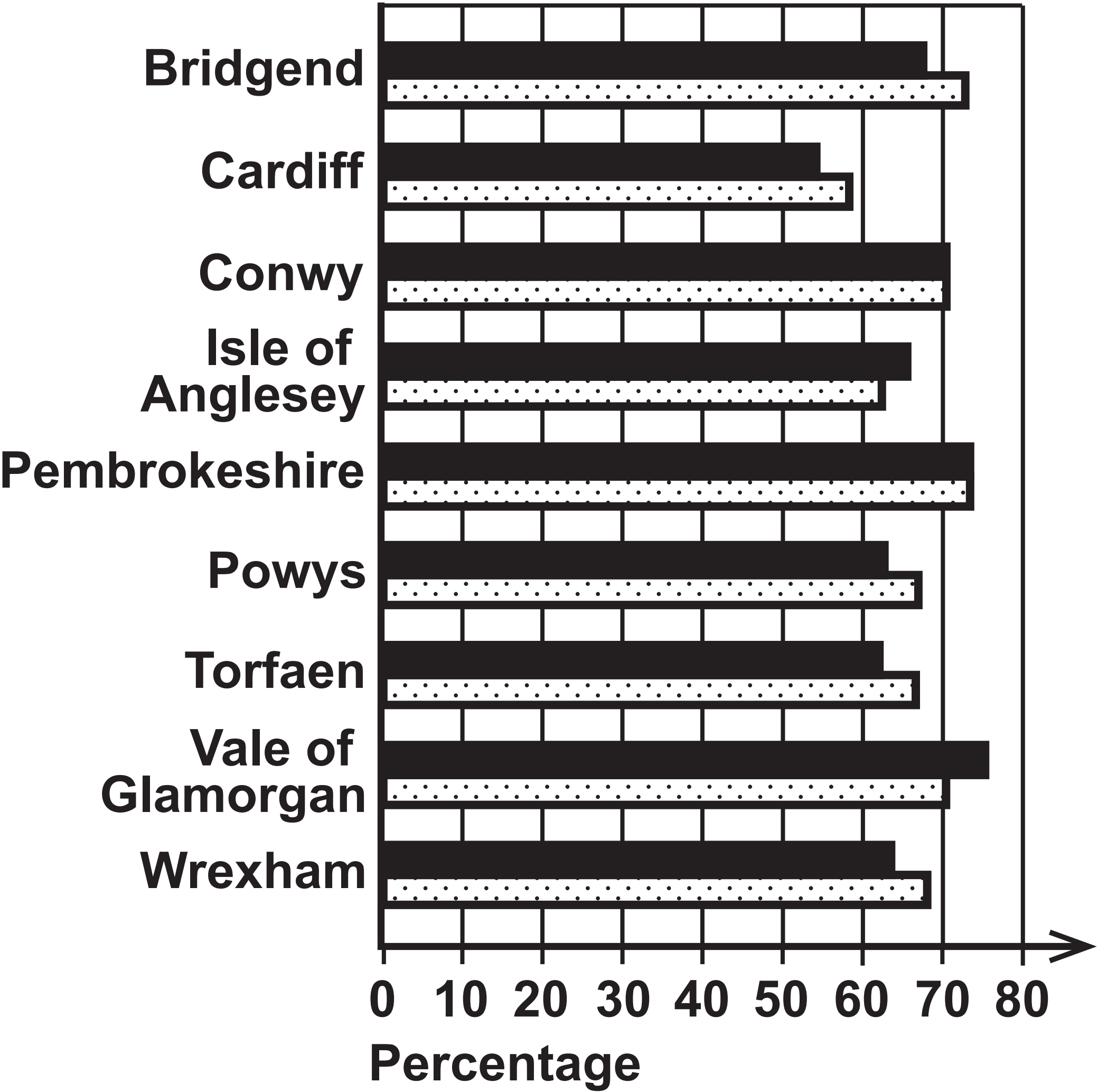
Table

Cinema	$\frac{3}{10}$ of his friends
Trampolining	20% of his friends
Bowling	$\frac{1}{2}$ of his friends

Question 2 (a)

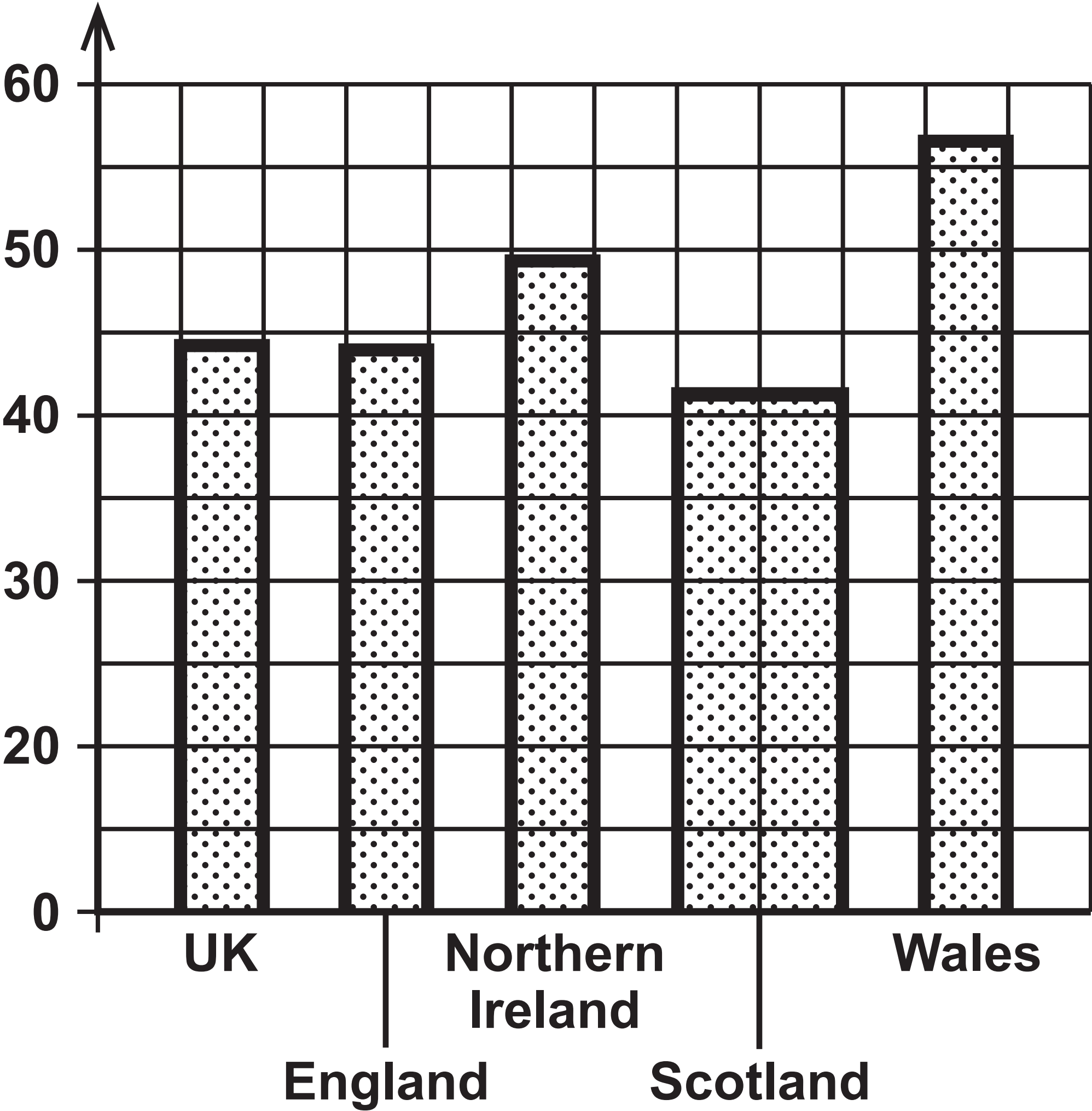
Key: 2021 2022

Local authorities



Question 2 (b)

Percentage of household waste recycled



Question 2 (c)

Diagram 1

Diagram NOT drawn to scale

Square tile

Rectangular tile

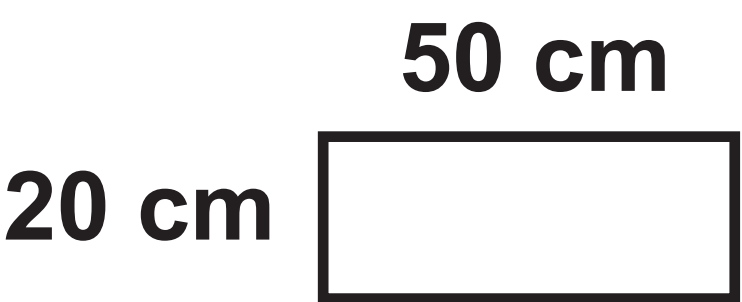
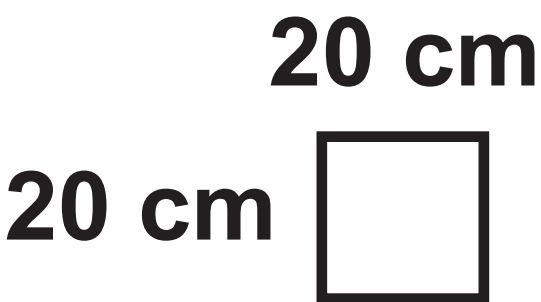
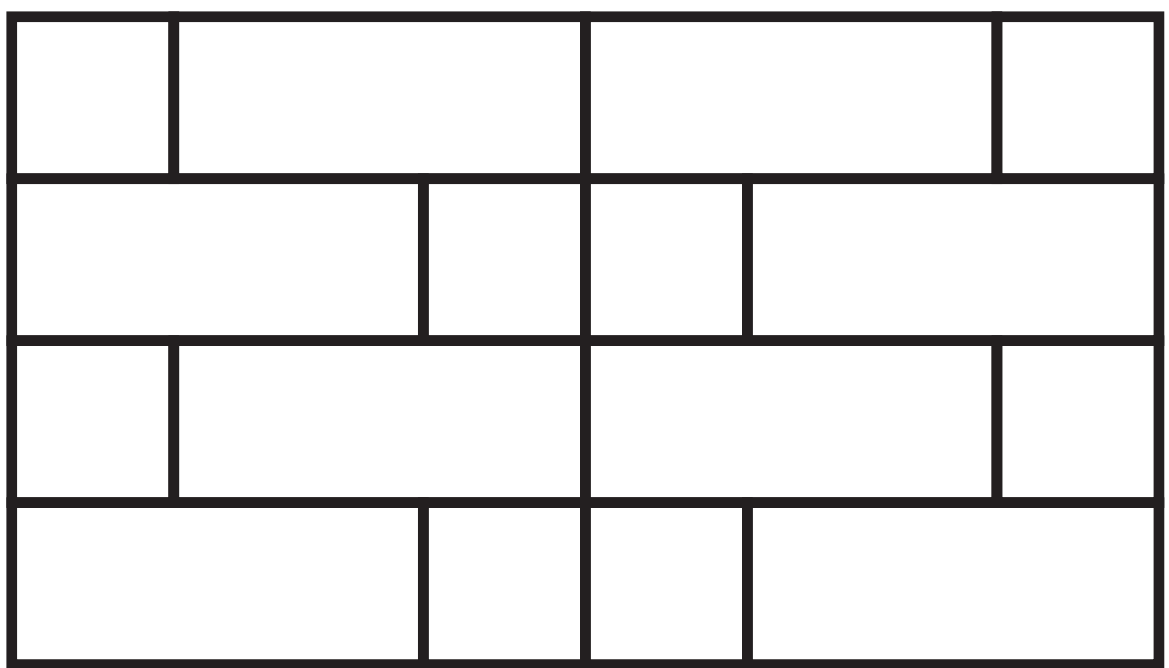


Diagram 2

Diagram NOT drawn to scale

Table top



Question 3 (b)

Formula

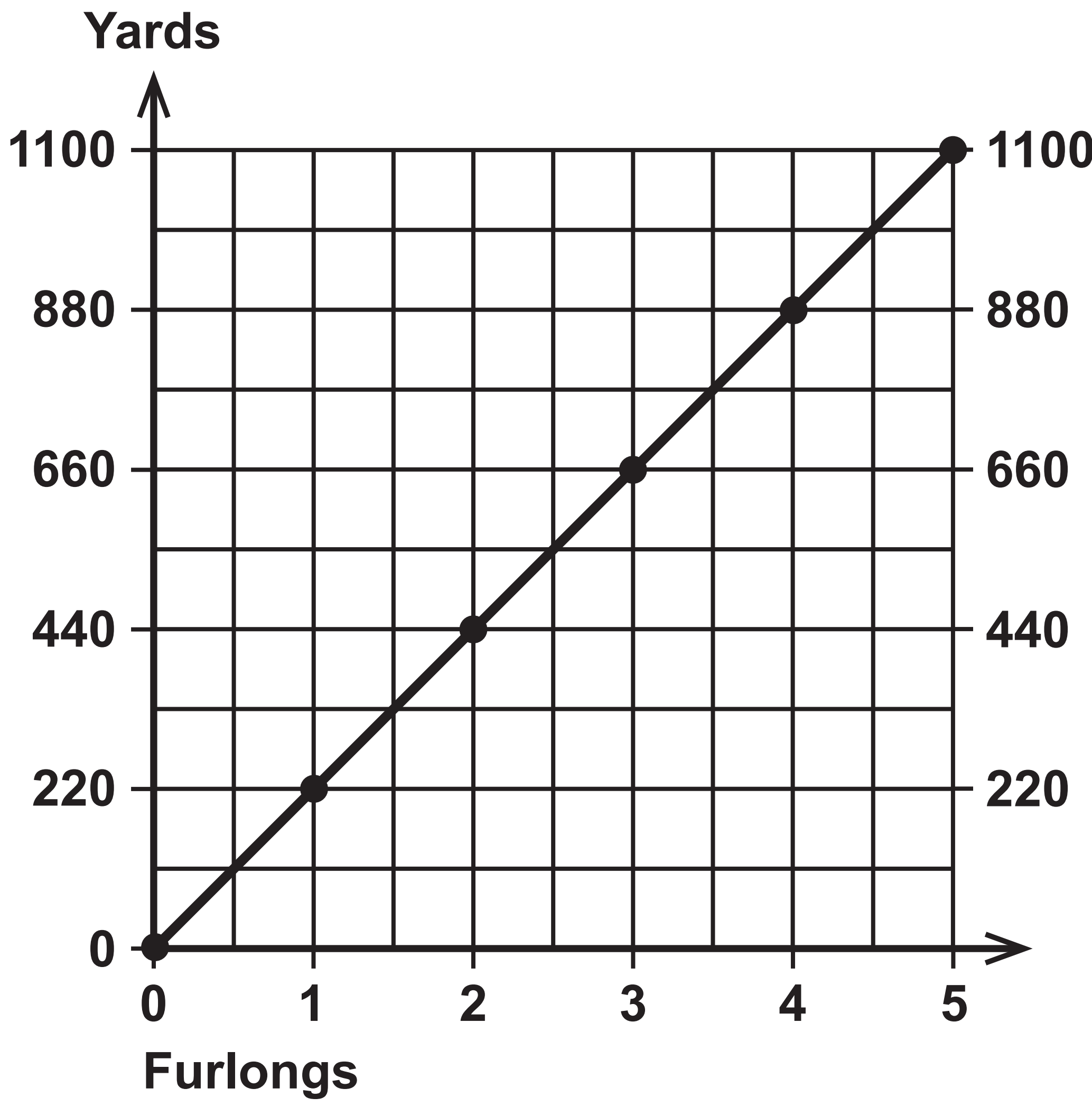
$$\text{Total cost} = \text{£}30 \times \text{number of hours} + \text{£}45$$

Question 4

Table

Fees paid to the festival organiser	£450
Bread rolls	£1.50 for 6 bread rolls
Sausages	£4 for 10 sausages

Question 5



Question 6 (a)

Information

**Sean Sheep
Mix
(20kg bag)**

Was £14

Now 15% off

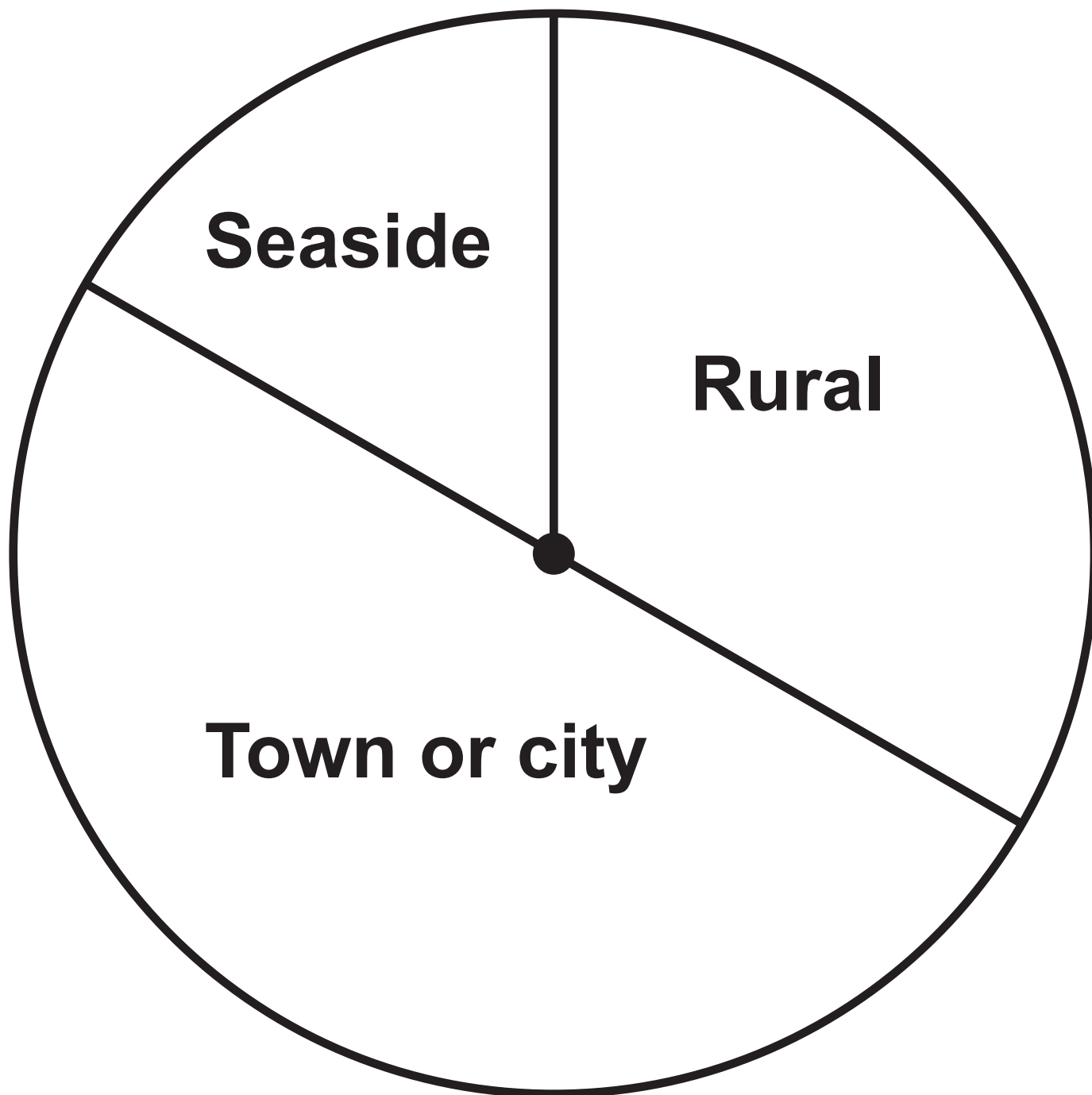
**Rugged Sheep
Mix
(20kg bag)**

Was £24

Now $\frac{5}{8}$ off

Question 7

Results of Ralph's survey



Question 8

Information

Q1. Most children read lots of books.

Do you read lots of books? _____

Q2. How many books do you read during the holidays?

None

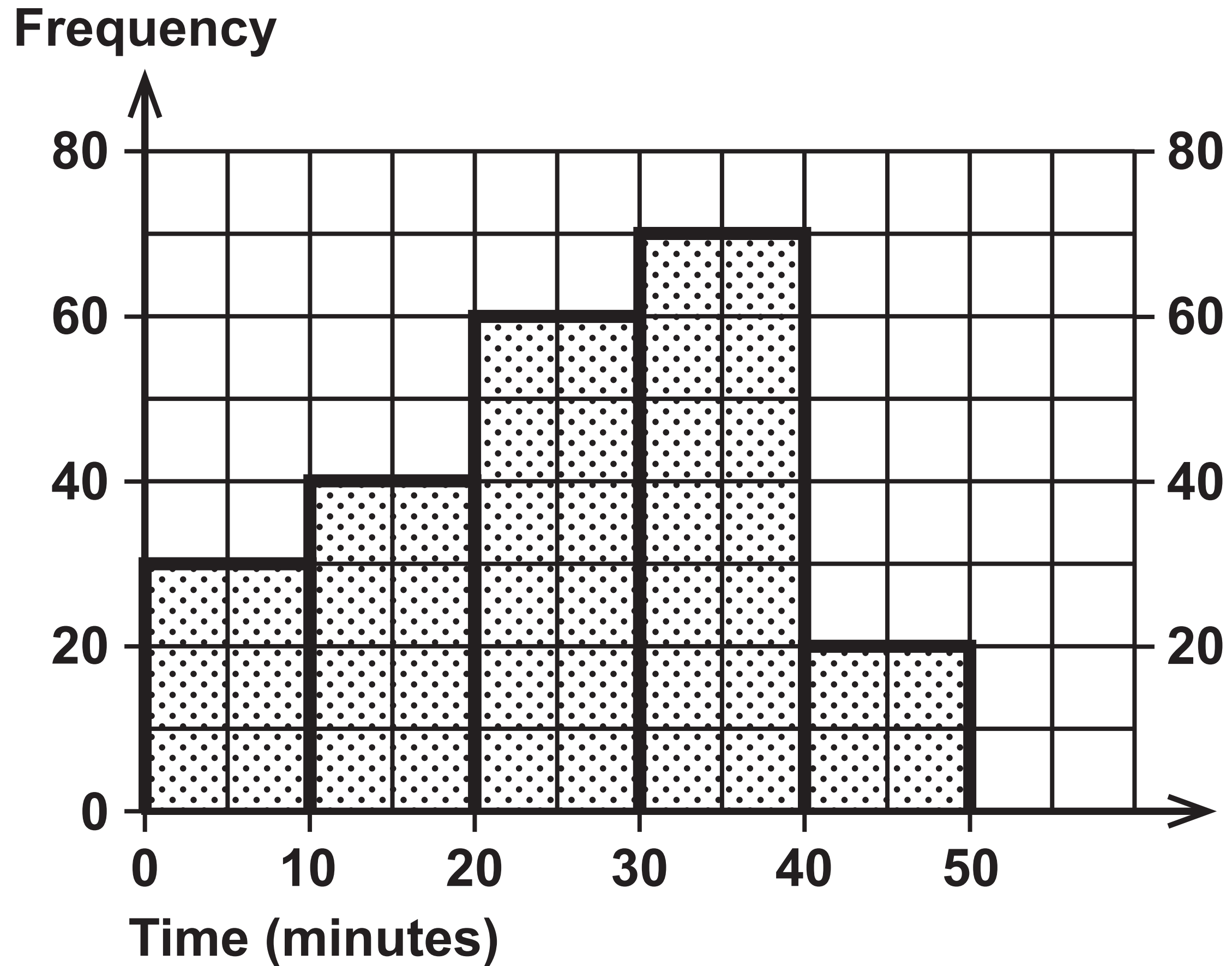
**1 – 10
books**

**10 – 20
books**

**More than
20 books**

☐☐☐☐

Question 9



**GCSE
MATHEMATICS**

and

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MATHEMATICS – NUMERACY



**FORMULA LIST
FOUNDATION TIER
GCSE**

**You must not write on these formula
pages.**

**Anything you write on these formula
pages will gain NO credit.**

Formula List – Foundation Tier

Area of trapezium $= \frac{1}{2} (a + b) h$

