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Maths

Entry Level 3, Book 12

GLH 30

Recap and Summary

Name	
Number	
Location	
Date Issued	



➤ Introduction

This booklet is part of your learning programme.

Remember to read carefully and try your best. Don't worry if you get stuck, make a note on the booklet and move on to the next task. Try coming back to it later, see if you can work it out then.

If you are still stuck, remember to make a note at the end of the booklet.

Throughout the booklet, you will see that some words have been printed **blue and bold**. You will find more detailed explanations of each of these words in the 'Glossary' at the back of the booklet.



Glossary is a list of often difficult or specialised words with their definitions, placed at the back of a book. You may also know this as a word bank.

By working through this booklet, you will get the chance to test all of the knowledge and skills you have gained whilst completing the Functional Skills maths programme. All the questions are around the theme of planning a trip to Wales. You will be using all of the skills you have developed through the course and applying them to a real-life scenario. This is a good way for you to practise your skills and identify any areas you may require further help with.

What Do the Symbols in this Booklet Mean?



Where you see this symbol, there is a skills practice or activity for you to complete.



Information, explanations and case studies are shown with this icon.



This shows you there is a glossary or word bank with the meaning and correct spelling of key words.



This icon shows where to write comments for your tutor to read.



This symbol lets you know there are some key points to remember.



The Big Picture



You are studying Entry Level 3 Maths, which is taught over 55 Guided Learning Hours (GLH).

The programme covers the units listed below. The unit that you're working on today is ticked.

	Booklet	GLH	
1	Place Value and Sequencing		
2	Addition and Subtraction		
3	Multiplication		
4	Division		
5	Fractions		
6	Decimals and Money		
7	Rounding		
8	Time		
9	Shape and Space		
10	Measure		
11	Handling Data		
12	Recap and Summary	20	

Outcomes

These are the outcomes you can achieve by completing the learning activities in this booklet.

1

To gain confidence in your knowledge of Entry Level 3 Maths skills.

2

To use practical examples to embed maths skills and extract information needed to answer questions.





Recap



A **recap** is an effective way of helping you to remember and apply what you have learnt. If this is your first booklet, it may help you to think about what you know already about this subject. Can you answer the following questions?



What was the last booklet you completed?



Can you remember what you learnt about?



Can you remember three key points from the booklet?

1

2

3

▶ Planning a Trip to Wales – Part 1

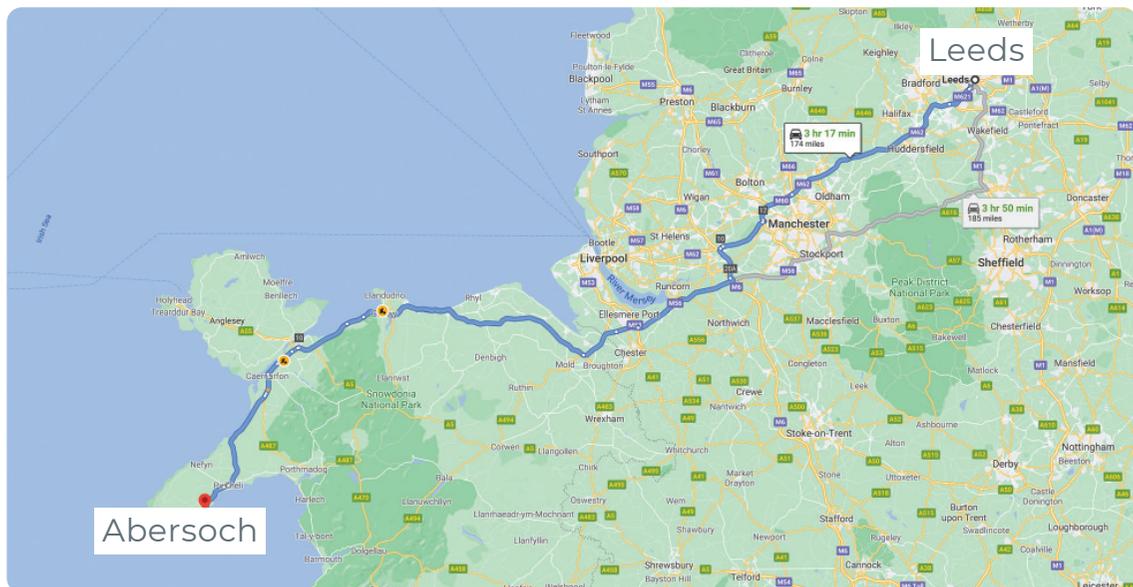
You are going on a trip to Abersoch, in Wales. You have a caravan at Blooms Caravan Site, and you plan to stay at your caravan for two weeks in the summer.

In this part, you will get the chance to show your ability to:

- Count, read, write, order, and compare numbers up to 1000.
- Add and subtract using 3-digit whole numbers.
- Approximate by rounding numbers less than 1000 to the nearest 10 or 100.
- Use appropriate positional vocabulary to describe position and direction including eight compass points.

You are going to Abersoch for a week's holiday staying in a caravan.

You live in Leeds and will be travelling by car. Here is a picture of the route.



Task
1

The distance from Leeds to Abersoch is 175 miles.

1a. Write this number in words:

1b. Round this number to the nearest 10:

▶ Planning a Trip to Wales – Part 1



Task
1

2a. What is the total distance from Leeds to Abersoch and back again?

2b. Show your working out:

3. Round this number to the nearest 100:

For your trip to Abersoch, your total mileage, including sightseeing for that week and your journey to Abersoch and back home to Leeds, was 751 miles.

4a. Round this number to the nearest 100:

4b. Write this number in words:

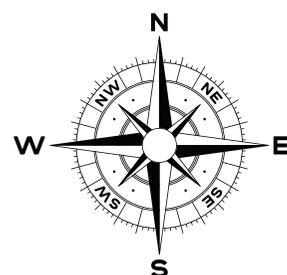
5a. How many miles did you travel sightseeing?



Can you recall from page 9 how many miles the journey from Leeds to Abersoch is? Remember the journeys will need to be taken away from the total.

5b. Show your working out:

6. Using the compass, **approximate** in which direction you will be travelling from Leeds to Abersoch:



▶ Planning a Trip to Wales – Part 2

In this part, you will get the chance to show your ability to:

- Multiply 2-digit whole numbers by 1-digit and 2-digit whole numbers.
- Approximate by rounding numbers.
- Read measure and record time using am and pm.
- Use and compare measures of capacity using metric or imperial units.
- Compare units of capacity including millilitres and litres.



Task
2

The journey from Leeds to Abersoch takes 3 hours and 25 minutes.

1. You set off on your journey at 12 o'clock midday; what time do you arrive in Abersoch?
2. Write this time using the 24-hour digital clock.
3. Round this time to the nearest 10 minutes.
4. Round 3 hours and 25 minutes to the nearest hour:
 - 5a. How many minutes long is the journey?
 - 5b. Show your working out:

There are more questions on the next page.



▶ Planning a Trip to Wales – Part 2



Task
2

Your car's petrol consumption is 30 miles per gallon. You travelled 180 miles. (1 gallon is equivalent to 4.5 litres.)



6. How many gallons did you use?

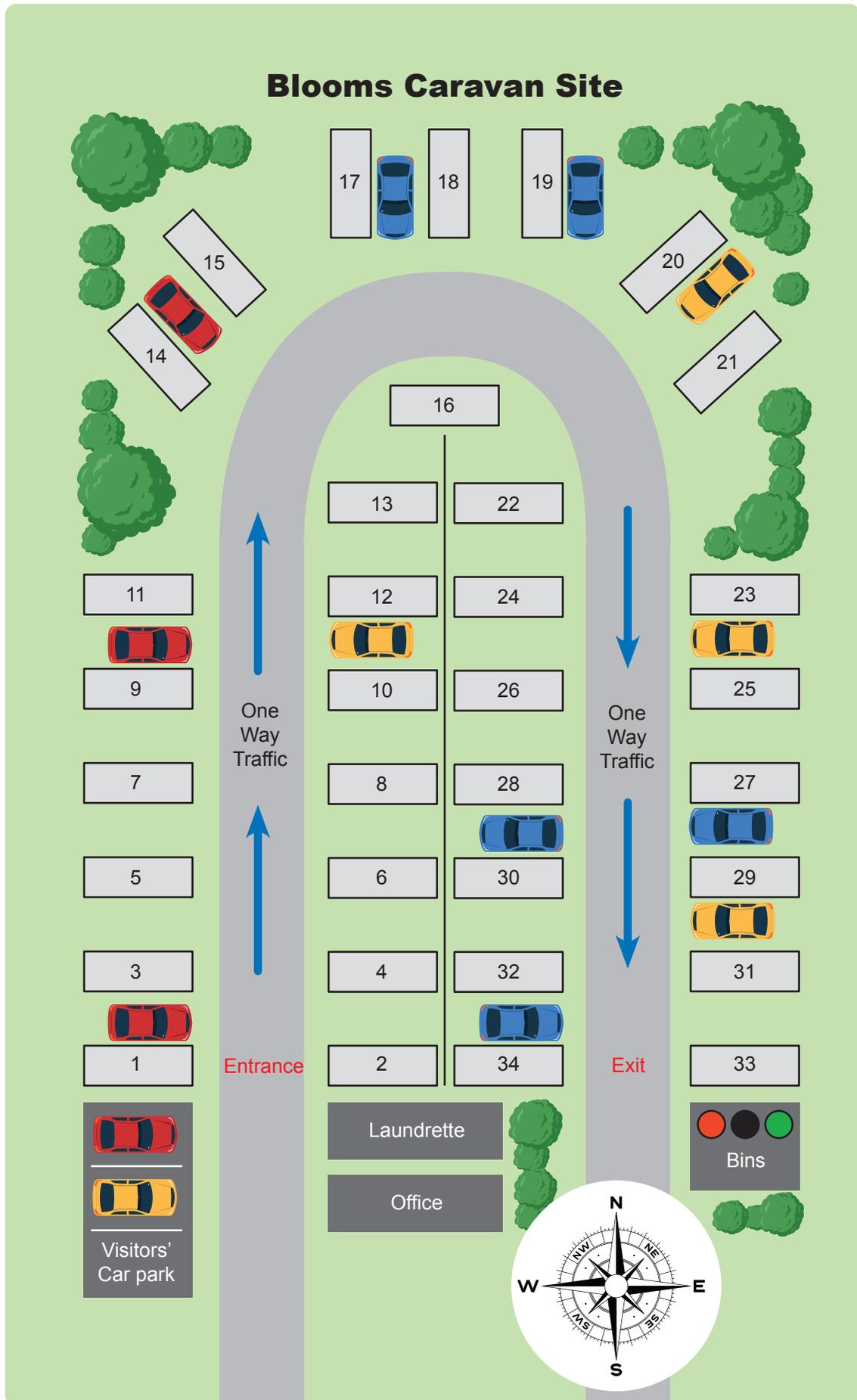
.....

7. Convert the gallons into litres

8a. How many litres did you use?

8b. Show your working out:

Planning a Trip to Wales – Part 3



▶ Planning a Trip to Wales – Part 3

We will be using the diagram on page 13 to answer the next set of questions. Each numbered rectangle on the map represents a caravan.

In this part, you will get the chance to show your ability to:

- Count, read and write numbers up to 100.
- Compare metric measures of length, including metres and kilometres.
- Identify 2D and 3D shapes using properties including lines of symmetry, length, right angles and other angles, including rectangles and triangles.
- Use appropriate positional vocabulary to describe position and direction including eight compass points and full/half/quarter turns.



Task
3

1. How many caravans are on this site?
2. How many odd numbered caravans are there?
3. How many even numbered caravans are there?
4. You are staying in caravan number 9 for your trip; circle the caravan on the diagram.
5. Someone asked you how to drive to the bins from your caravan. Describe the directions, in detail, using the points of the compass, full/half or quarter turns, and clockwise or anticlockwise directions.

▶ Planning a Trip to Wales – Part 3



Task
3

6. What shape is your caravan?
7. What other 2D shapes are on the caravan site map?
- 8a. The distance to Abersoch is 4.5 kilometres. How many metres is this?
- 8b. Show your working out:
- 9a. You are staying for 14 days and there is a charge of £15 per day for cleaning and laundry to be done. You plan to use the laundry four days during your stay.

If you decide to use this service, how much would it cost in total?
- 9b. Show your working out:

Planning a Trip to Wales – Part 4

In part 4, you will get the chance to show your ability to:

- Recognise and continue linear sequences of numbers.
- Read and write decimals up to two decimal places.
- Recognise and continue sequences that involve decimals.
- Calculate with money using decimal notation and express money correctly, writing in pounds and pence.
- Use a suitable instrument to measure **mass** and length.
- Round amounts of money to nearest £ or 10p.
- Compare measures of weight, including grams and kilograms.

Shopping list

Milk
Bread
Coffee
Sugar
Water x 6
Crisps x 12
Chicken
Coke
Washing powder
Soap
Burgers x 6
Pringles
Sausages x 12

▶ Planning a Trip to Wales – Part 4



Task 4

Using rounding, can you work out the totals of the items from the shopping list on page 16?

Item	Actual cost	Round to the nearest 10p	Round to the nearest £
Milk	£3.02		
Bread	£1.34		
Coffee	£3.49		
Sugar	£1.98		
Water x 6	£4.20		
Crisps x 12	£3.65		
Chicken	£3.55		
Sausages x 12	£3.62		
Pringles	£2.00		
Burgers x 6	£3.68		
Soap	£1.34		
Washing Powder	£6.28		
Bottle of Coke	£2.29		
Totals			

Look at the rounded totals, what do you notice about them? How close are they to the actual totals?

Stretch and Challenge



Task 5

Have a look at this shopping list. Have a go at converting the weights and capacities. One has been completed for you. (Ignore the shaded grey boxes.) When you have completed it, answer the questions on the next page.

Item	Weight in		Capacity in	
	Grams (g)	Kilograms (kg)	Litres (l)	Millilitres (ml)
Milk			4.5 litres	
Bread	600g			
Coffee	275g			
Sugar	2000g	2kg		
Water x 6				6 x 330ml
Crisps x 12	12 x 25g			
Chicken		3kg		
Sausages x 12	12 x 70g			
Pringles	300g			
Burgers x 6	6 x 120g			
Soap	250g			
Washing Powder		1.5kg		
Bottle of Lemonade			2 litres	
Cans of Cola				6 x 330ml

▶ Planning a Trip to Wales – Part 4



Task 6

1. What is the heaviest item shown on the list?
2. Which is heavier, washing powder or water?
3. Which is the lightest, 12 x crisps or Pringles?
4. Continue this number pattern for the sausages:
30p → 60p → 90p → 120p → _____ → _____
→ _____ → _____ → _____ → _____ → _____ → _____
5. Your loaf of bread contains 20 slices. You have 2 slices for breakfast. As a fraction of 20 slices, what is 2 slices?
6. You also have 500ml of milk. As a fraction of 2000ml what is 500ml?
7. At lunch you have 2 cans of cola from the six you purchased. As a fraction, what are the cans of cola?

▶ Planning a Trip to Wales – Part 4



Task 6

8. Which instruments measure mass and length?

Can you match the instrument to its name and use?

Instrument	Name	Measure
	Weighing Scales	A flexible ruler used to measure size or distance.
	Thermometer	A ruler, sometimes called a rule, is used to measure distances or draw straight lines.
	Tape Measure	Measures temperature.
	Pressure Valve	A device to measure weight or mass.
	Ruler	Used to measure gases and liquids.

▶ Planning a Trip to Wales – Part 4



Task
6

9. Which of the instruments in the table on page 20 measure mass and which measure length?

Mass:

Length:

10. Complete the following amounts of money using the correct decimal notation. Remember that to convert p into £ we divide by 100, and to convert £ to p we multiply by 100.

E.g. 136 can be written as 136p or £1.36

	£	p
28p		
110p		
99p		
579p		
2316p		

11. Continue this sequence of decimals to 2 decimal places.

1.25 → 1.4 → 1.55 → 1.7 → _____ → _____ → _____

→ _____ → _____ → _____ → _____ → _____

▶ Planning a Trip to Wales – Part 5

In this part, you will get chance the to show your ability to:

- Read, write and understand fractions.
- Calculate with money using decimal notation and express money correctly, writing in pounds and pence.
- Identify properties of 2D and 3D shapes, including lines of symmetry, length and right angles.



Task
7

You go to the beach for a walk, have an ice cream and have some fun with a football.



1. What 3D shape is your ice cream cornet?



2. What 2D shapes make up the pattern on the football?

3. What 3D shape is the ball?



▶ Planning a Trip to Wales – Part 5



Task
7

Further along the beach, you see this sign. You hire a jet ski.

4a. How much is it to hire the jet ski for 1 hour?



4b. Show your working out:

5. As a fraction, what is 20 minutes of 1 hour?

▶ Planning a Trip to Wales – Part 5



Task 8



a.



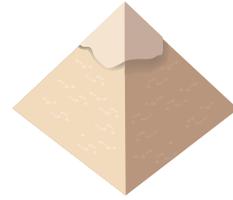
b.



c.



d.



e.

1. Which of these shapes has a base?
2. Which shapes have all equal sides?
3. Which shape is 2D?
4. What shape is the brick?
5. Which shapes have right angles?
6. How many corners has a cube?
7. Mark the lines of symmetry on each shape.

▶ Planning a Trip to Wales – Part 6

In this part, you will get the chance to show your ability to:

- Extract information from frequency tables.
- Interpret information, make comparisons and record changes, using different formats, including bar charts and simple line graphs.
- Organise and represent information in appropriate ways including tables, simple line graphs and bar charts.



Task
9

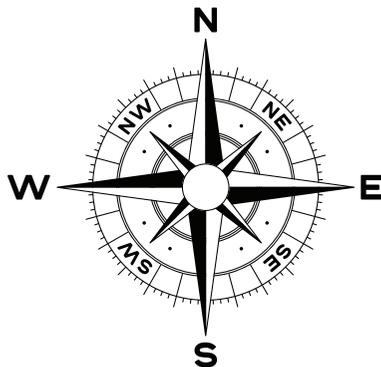
You go for a game of golf with your neighbour.

While on the golf course, your neighbour asks you if you know the main points on a compass.

“Why?” you ask.

“It is helpful to know,” he replies. “For example, knowing the wind direction changes your stance so you can hit the ball more effectively.”

1. Write down the 8 main points of a compass.



▶ Planning a Trip to Wales – Part 6



Task
10

Your Scorecard

Hole	1	2	3	4	5	6	7	8	9
Shots				/		/	/		

How well did you do?

Count your shots (tallies):

Your Neighbour's Scorecard

Hole	1	2	3	4	5	6	7	8	9
Shots							/		

How well did your neighbour do?

Count his shots (tallies):

On the next page, draw a simple line graph to compare your shots for each hole against your neighbour's. Then draw a bar chart on p28 to compare your total shots and your neighbour's.



Golf is unique: it's the only sport in which the **lowest score wins**.

Who won?

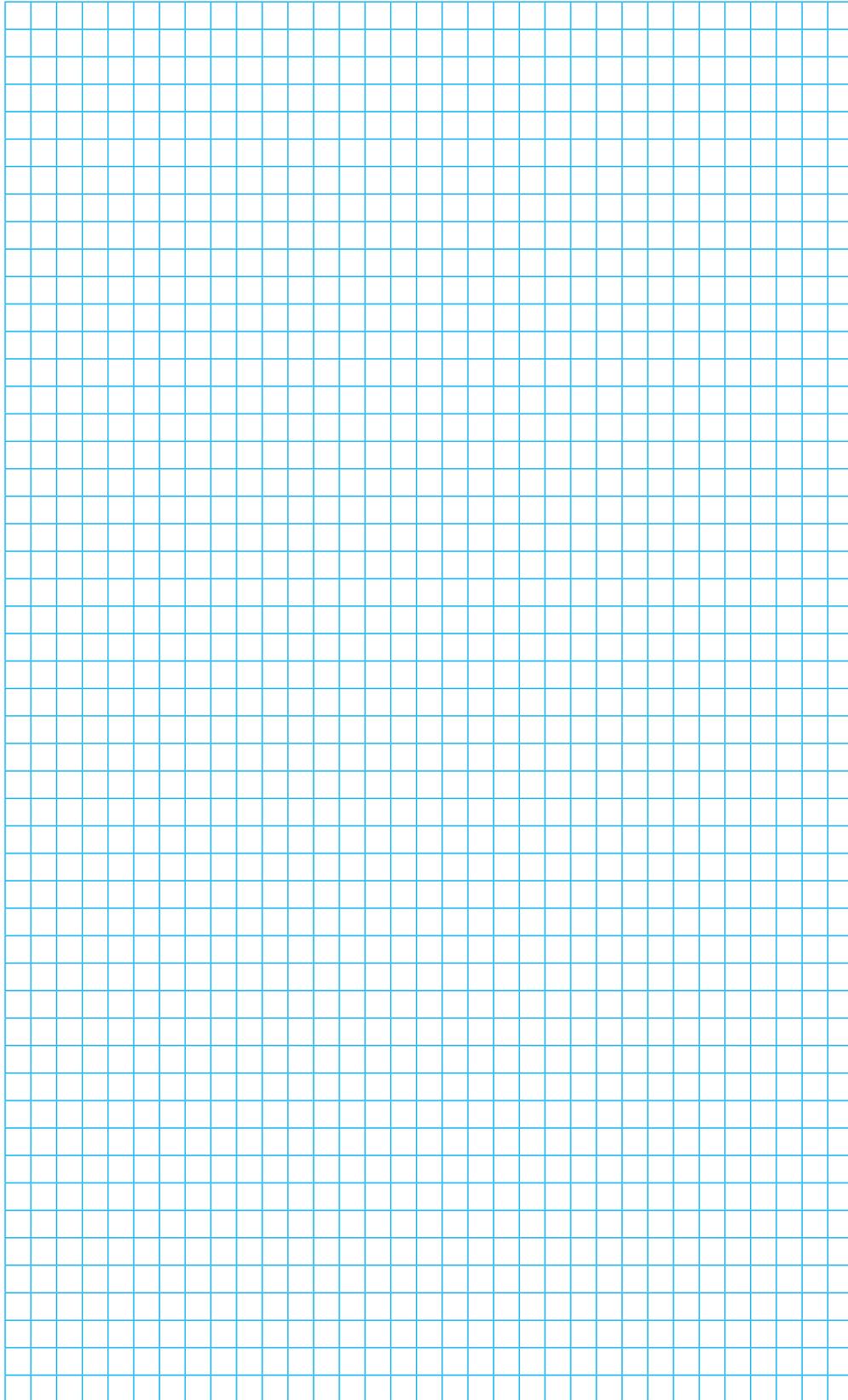


▶ Planning a Trip to Wales – Part 6



Task
10

Line Graph



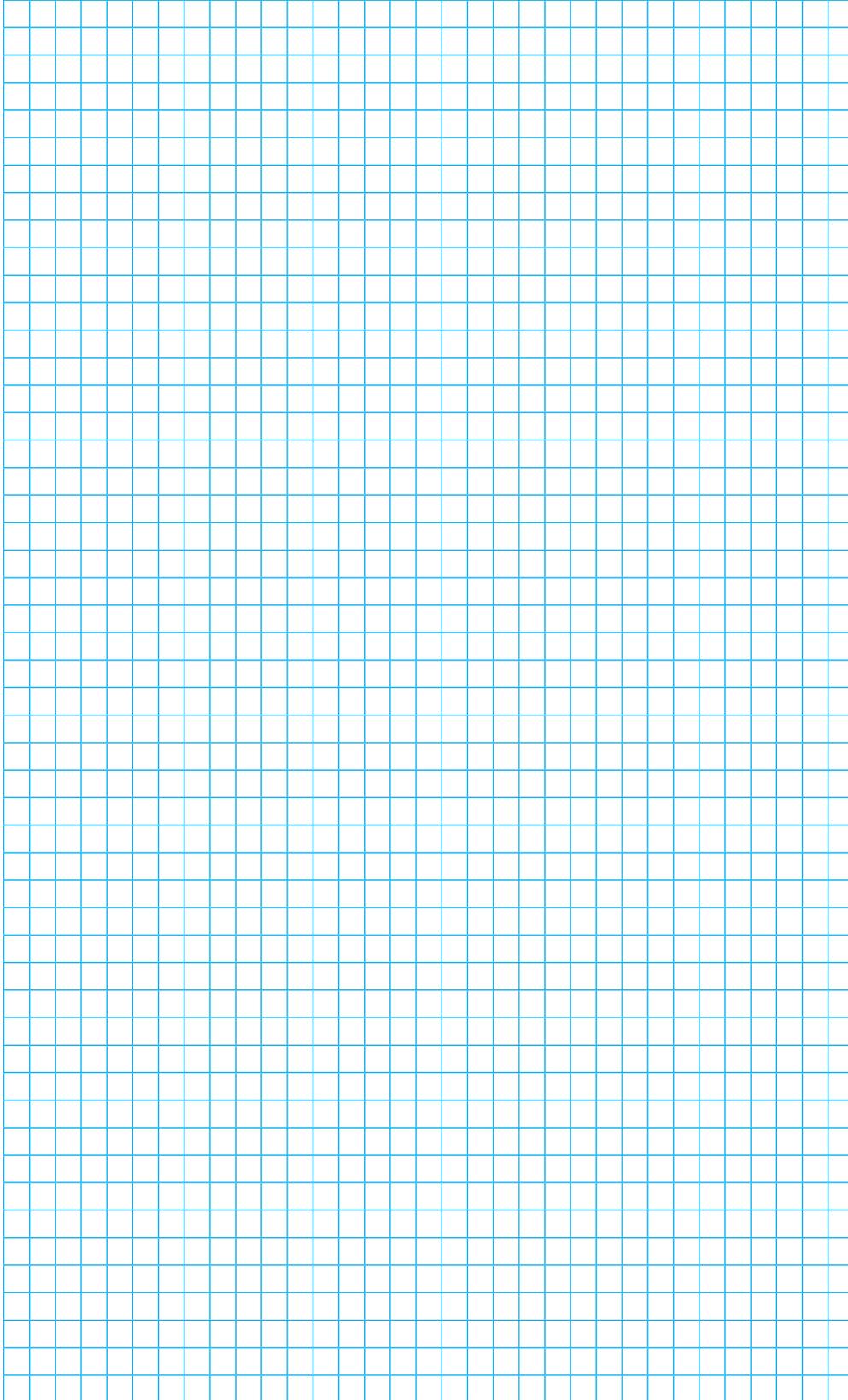


Planning a Trip to Wales – Part 6



Task
10

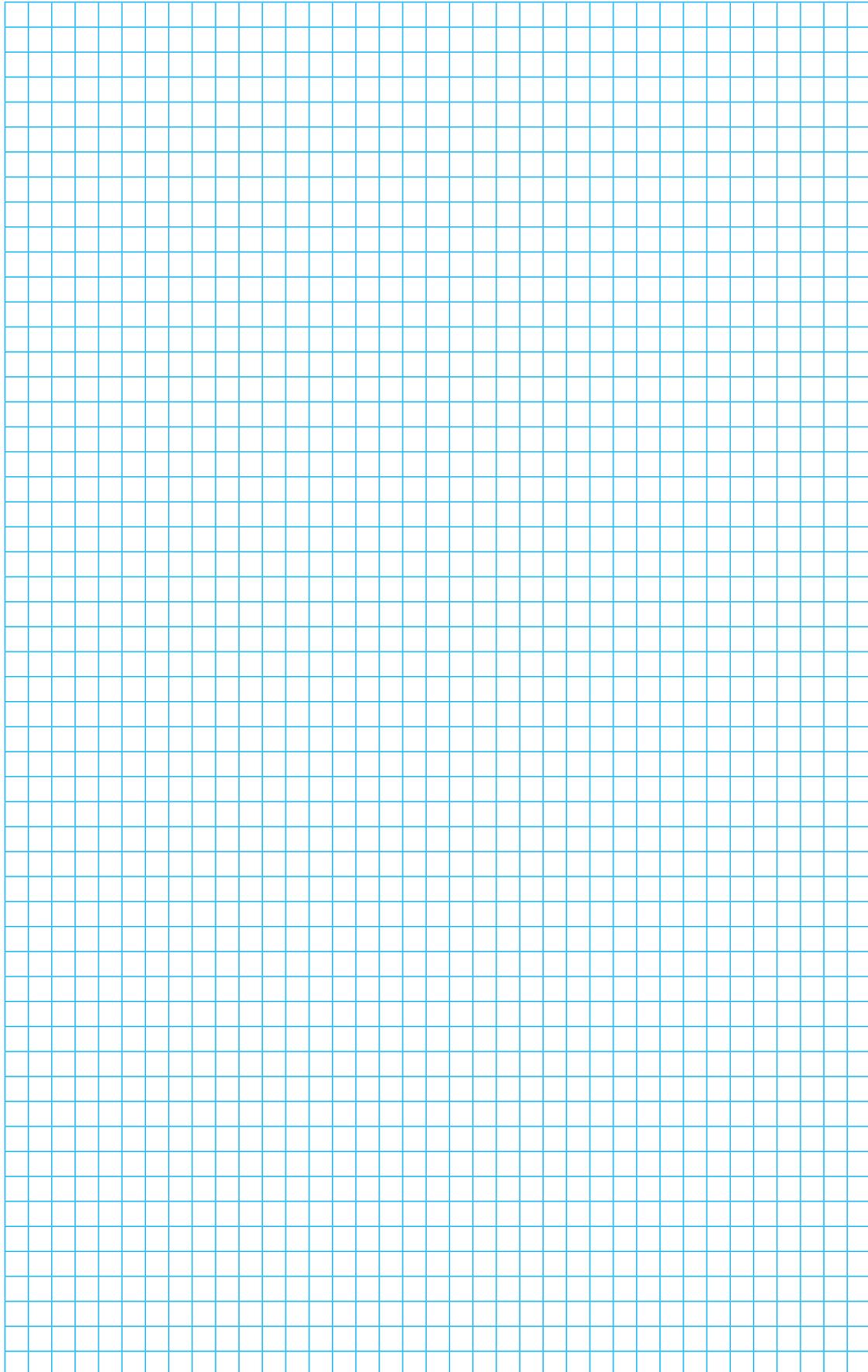
Bar Chart





Planning a Trip to Wales – Part 6

Spare paper



Glossary



Approximate	Close to the actual but not quite exact.
Convert	To change or alter.
Mass	Mass is commonly measured by how much something weighs.

Next Steps

Now you have completed Booklet 12, please return this to your tutor/trainer.

Your tutor/trainer will mark the work and provide you with some feedback showing what you have done well and suggestions on improvements.





WWW (What Went Well)

EBI (Even Better If)

Next steps

Learner feedback (Please provide some feedback for your tutor following the comments that you have just made on your work.)

Have Your Say



We would be interested in your opinion of this booklet.

- 1. Was there anything you found easy in this workbook?** Yes No
If you answered yes, what did you find easy?

- 2. Was there anything you found hard?** Yes No
If you answered yes, what did you find hard?

- 3. Is there anything that you would like your tutor to go over again?** Yes No
If you answered yes, what is this?

- 4. If your tutor provided learning aids, did you use them?** Yes No
If you answered yes, how were they useful?

- 5. Would you like more support?** Yes No
If you answered yes, one of our Support Staff will get in touch with you.

- 6. Do you have any questions?**

- 7. What have you learnt from this booklet?**



Notes



Notes



