Contents

	1
Week I – Multiplication and division	4
Multiplying a 2-digit number by a I-digit number	4
Multiplying a 3-digit number by a I-digit number	8
Dividing a 2-digit number by a I-digit number	12
Dividing a 3-digit number by a I-digit number	16
Week 2 – Multiplication and division cont.	20
Solving problems – division	20
Perimeter and area	24
Perimeter of a rectangle	24
Perimeter of rectilinear shapes	28
Counting squares	32
Week 3 - Fractions	36
Tenths and hundredths	36
Equivalent fractions	40
Simplifying fractions	44
Fractions greater than I	48
Week 4 - Fractions cont.	52
Adding fractions	52
Subtracting fractions	56
Calculating fractions of a quantity	60
Solving problems – fraction of a quantity	64
Week 5 - Decimals	68
Tenths	68
Dividing by I0	72
Hundredths	76
Dividing by I00	80

This tells you which page you need.

Week 6 – Decimals cont.	84
Writing decimals	84
Comparing decimals	88
Ordering decimals	92
Rounding decimals	96
Week 7 - Money	100
Pounds and pence	100
Ordering amounts of money	104
Solving problems – pounds and pence	108
Solving two-step problems	112
Week 8 – Money cont.	116
Solving problems – money	116
Rounding money	120
Statistics	124
Line graphs	124
Charts and tables	128
Week 9 – Geometry – angles and 2D shapes	132
Comparing and ordering angles	132
Identifying regular and irregular shapes	136
Classifying triangles	140
Classifying and comparing quadrilaterals	144
Week IO – Geometry angles and 2D shapes cont.	148
Lines of symmetry inside a shape	148
Completing a symmetric figure	152
Geometry – position and direction	156
Describing position	156
Drawing on a grid	160
Answers to Practice questions	164

The first page of a lesson is a maths problem. Don't look at the next page until you have had a go! The third and fourth pages give you practice, so you can check your understanding.



Solving problems - division

Discover



- a) How does Mo know that they cannot get into groups of 5? How many children would be left over?
 - b) What group sizes could the children stand in without any being left over?

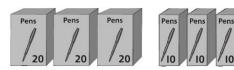
Share A number that divides equally by 5 must end in a 0 or 5. a) There are 72 children. Mo knows that 72 cannot be shared equally into 5 groups because 72 is not in the 5 times-table. 20 $50 \div 5 = 10 \quad 20 \div 5 = 4$ So, $72 \div 5 = 14 \text{ r } 2$ 2 children would be left over. b) $72 \div 2 = 36$ $72 \div 3 = 24$ $72 \div 4 = 18$ $72 \div 6 = 12$ I made an array to show that 72 could be put into groups of 8 columns or 9 rows. This is because $9 \times 8 = 72$. The children could stand in groups of 2, 3, 4, 6, 8, 9

and I2 without any being left over.

Solving problems - division

These pens are shared between 2 classes.

How many pens does each class get?





Each class gets pens.

2 Mo, Kate and Toshi share this money.





















How much money do they each get?

They each get £

3 44 children sing in a choir.5 children can fit on one bench.How many benches are needed?



benches are needed.	

4 Is this sentence true or false? Circle your answer.

The remainder when 77 is divided by 2 is the same as the remainder when 49 is divided by 4.



The sentence is true / false.

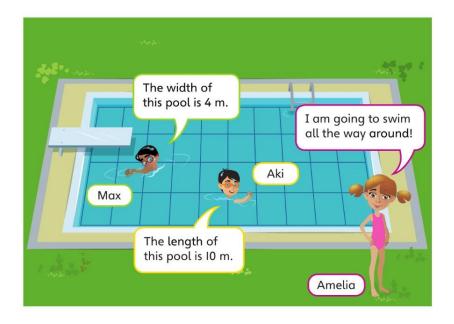
5 Find three division questions with the answer 8 remainder 3.



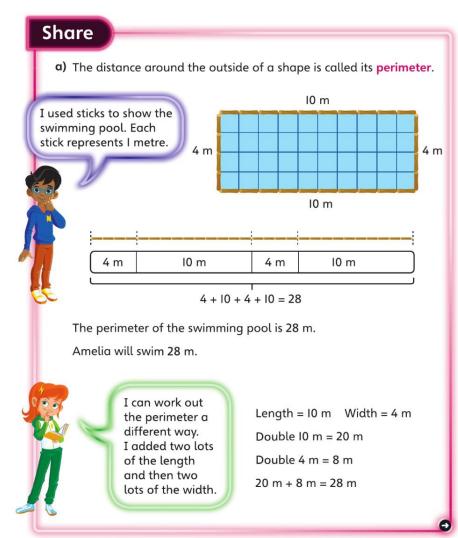
	÷[] = 8 r 3
--	----	-----------

Perimeter of a rectangle

Discover

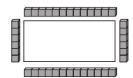


a) How far will Amelia swim?b) Another pool is a square shape with a side length of 4 m.What is the distance around this pool?



Perimeter of a rectangle

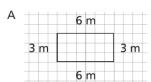
Liam draws a rectangle. He uses cubes to measure the length of each side. Each cube is I cm long.



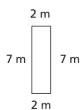
What is the perimeter of the rectangle?



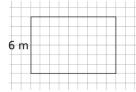
2 Find the perimeters of these rectangles.



C



В



D

	9 m
5 m	

Rectangle Perimeter

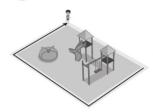
A m

B m

C m

D m

3 Tick all children who are showing perimeter.







l m

4 Each square has a length of 5 m.

 a) Label the length and the width of this swimming pool.

m		

b) What is its perimeter?



5 The school field is 50 m long and 23 m wide. 4 Jack runs the length of the field 3 times.

Sam runs around the perimeter once (I time).

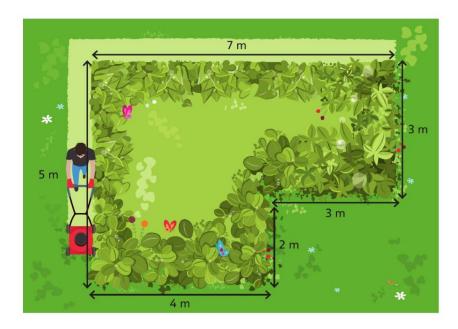
Who has run further?

_____ has run further.

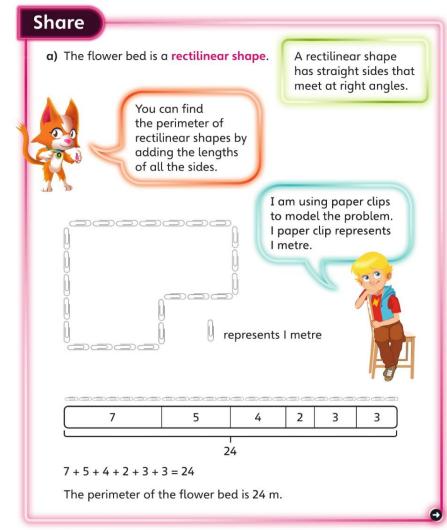
Explain your answer.

Perimeter of rectilinear shapes

Discover

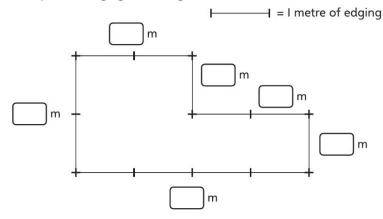


- (1) a) What is the perimeter of the flower bed?
 - b) Draw a diagram for the shape of the flower bed on squared paper.



Perimeter of rectilinear shapes

A gardener uses wooden edging around a flower bed.
 Each piece of edging is I m long.



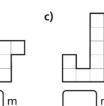
- a) Complete the measurements of each side.
- b) Work out the perimeter of the flower bed.

The perimeter of the flower bed is _____ m.

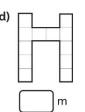
Label each shape with its perimeter.













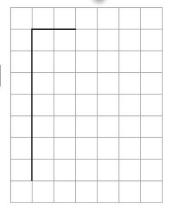


The lengths of its sides are: 7 cm, 2 cm, 4 cm, 3 cm, 3 cm and 5 cm.

a) The perimeter of the badge is

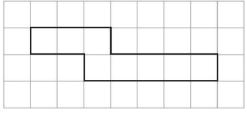
cm.	I cm
	1 (111

b) Use the measurements to draw the badge. The first two lines are done for you.



The sides of this rectilinear shape, in order, are 3 m, 1 m, 4 m, 1 m, 5 m, 1 m, 2 m, 1 m.

Label the diagram and find the perimeter.



Counting squares

Discover



- **(1)** a) Who has the larger bed?
 - **b)** How much empty space do they both have in their bedroom?

Share

 a) We can use squared paper to help find the area of different shapes.

I numbered each square to make sure I did not miss any.

I have thought of a way to use timestable facts to help.

-	1	2	3	4	5
	6	7	8	q	10

1 2 3 4 5

Kate's bed has 2 rows of 5 squares.

 I
 2
 3
 4

 5
 6
 7
 8

 9
 IO
 II
 I2

1 2 3 4

 $2 \times 5 = 10$

Aki's bed has 3 rows of 4 squares.

 $3 \times 4 = 12$

 $\ensuremath{\mathsf{I2}}$ squares is a larger area than $\ensuremath{\mathsf{I0}}$ squares, so Aki's bed is larger.

b) Count the squares to find the area of the empty space.

1	2	3	4	5	6
7					
8					
q	10	П	12	13	14
15	16	17	18	19	20
21	22	23	24	25	26

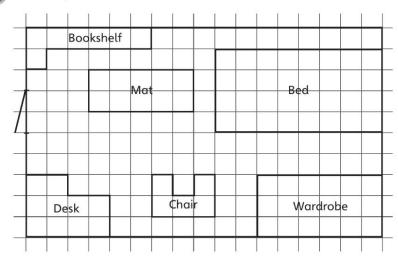
1	2	3				
4	5	6				
7	8	q				
10	Ш	12	13	14	15	16
17	18	19	20	21	21	23

Kate has 26 squares of empty space in her bedroom.

Aki has 23 squares of empty space in his bedroom.

Counting squares

Here is a plan of a child's bedroom.



- a) Complete the table to show the area of each object on the plan.
- b) Draw your own object on the plan and in the last line of the table write down its area.

Object	Area (squares)
Desk	
Chair	
Wardrobe	
Mat	
Bookshelf	
Bed	

2 Look at the shapes and complete the statements.

		В		
Α				
	1			
	1			

Rectangle A has an area of squares.

Rectangle B has an area of squares.

Area of A + B = \int squares + \int squares = \int squares

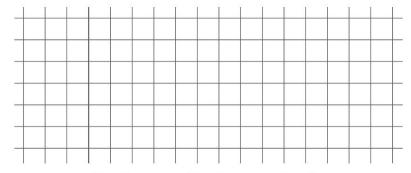
The whole shape has an area of squares.

A shape is made up of two rectangles joined together.

The first rectangle has twice the area of the second.

What could the total area be?

Draw your shape then work out its area.



Total area = squares + squares = squares