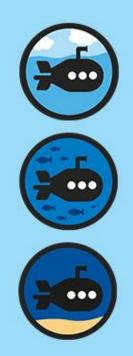


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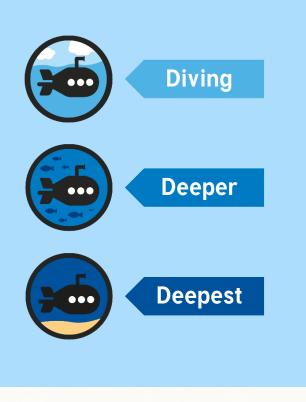


Counting Squares



Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



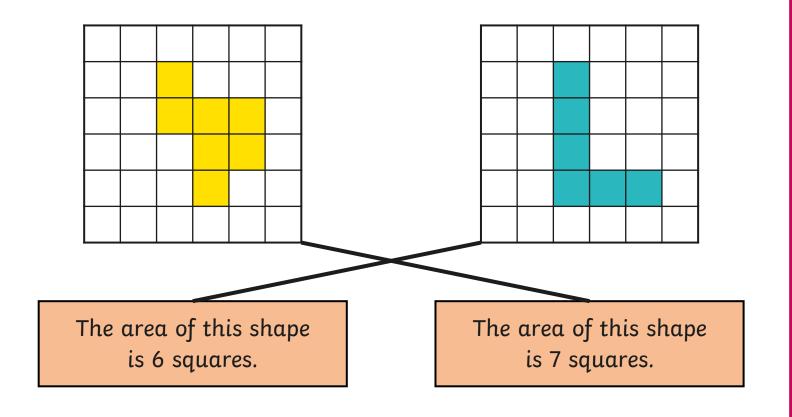
These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

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These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding. Counting Squares Diving

Match each shape to the correct area.

The and registered and the and



Diving

Complete the table.

1 and Marin Marin and Mark Photos

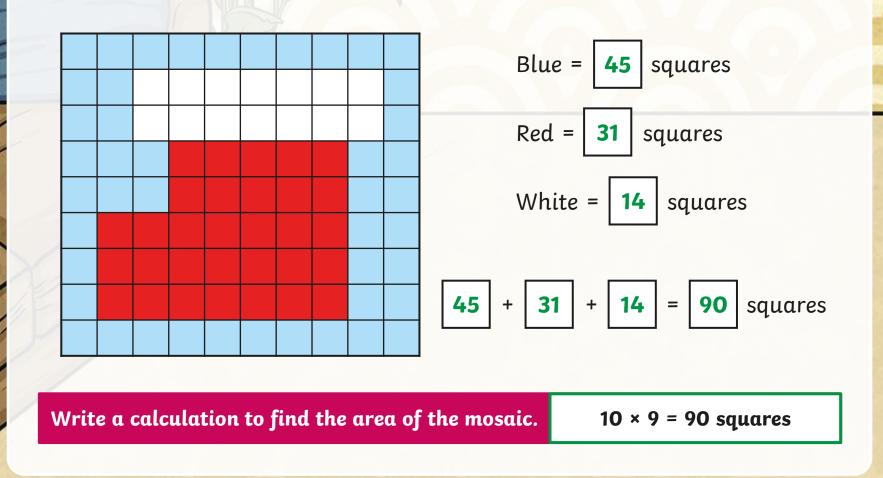
Ren aman

Shape	Description	Calculation	
Image: select	There are <u>3</u> squares in each row. There are <u>5</u> rows altogether. <u>5</u> rows of <u>3</u> squares equals <u>15</u> squares.	3 × 5 = 15 or 5 × 3 = 15	

Diving

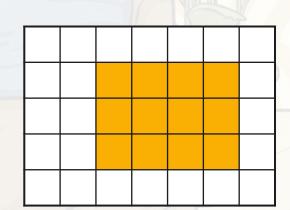
Count the squares of each colour and add them to find the area of the mosaic.

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Deeper

Do you agree or disagree with Tom? Explain your answer.



The area of this shape is 16 squares.

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Disagree. There are 3 rows of 4 squares, which makes 12 altogether. The area of this shape is 12 squares.

	0/	Y	DY /			
Counting Squares Deeper						
-				Three children have each calculated the area of this rectilinear shape. Who is right and who is wrong? Explain how you know.		
	Child	Calc	ulation	Tick or Cross	How Do You Know?	
	Καί		5 = 15 - 1 = 14		Kai has written a multiplication calculation to find the area and then subtracted the missing square.	
X	Ellie	3 + 3 + 2	+ 3 + 3 = 14		Ellie has added each column up correctly, but it is not the best method to use. It would be quicker and easier to use Kai's method.	
	Alex	5 ×	3 = 15	X	Alex has missed a step. He has multiplied, but has forgotten to subtract the missing square.	

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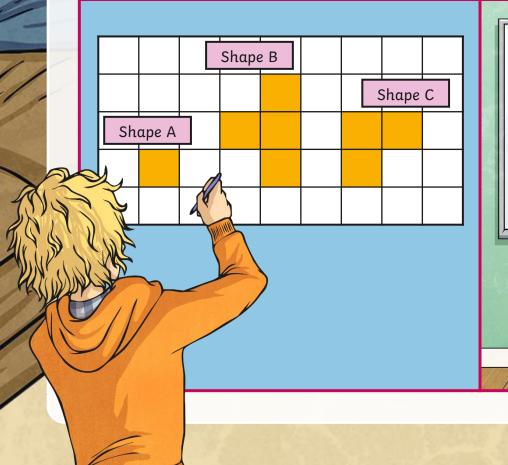
Martin and all a photo ha

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Deepest

Logan has drawn three rectilinear shapes with a total area of 8 squares.

Here is one example he has drawn. Finish off his calculations.



Area of shape A = 1 square Area of shape B = 4 squares Area of shape C = 3 squares Total area = 1 + 4 + 3 = 8 squares

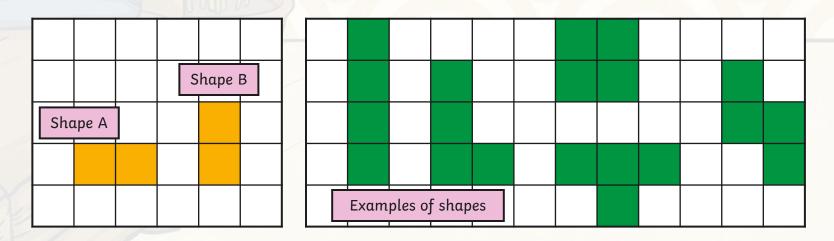
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Deepest

Sonia has also been drawing three rectilinear shapes with a total area of 8 squares. She has drawn a different shape A and shape B.

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How many different ways could she draw shape C?



Shape C must contain 4 squares to make 8 in total. Here are the different shapes Sonia could have drawn.

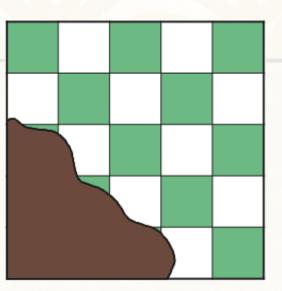
Were any of your shapes the same but a different way round?

Deepest

Omar has spilt coffee over his new tablecloth.

How many squares are on the tablecloth altogether?

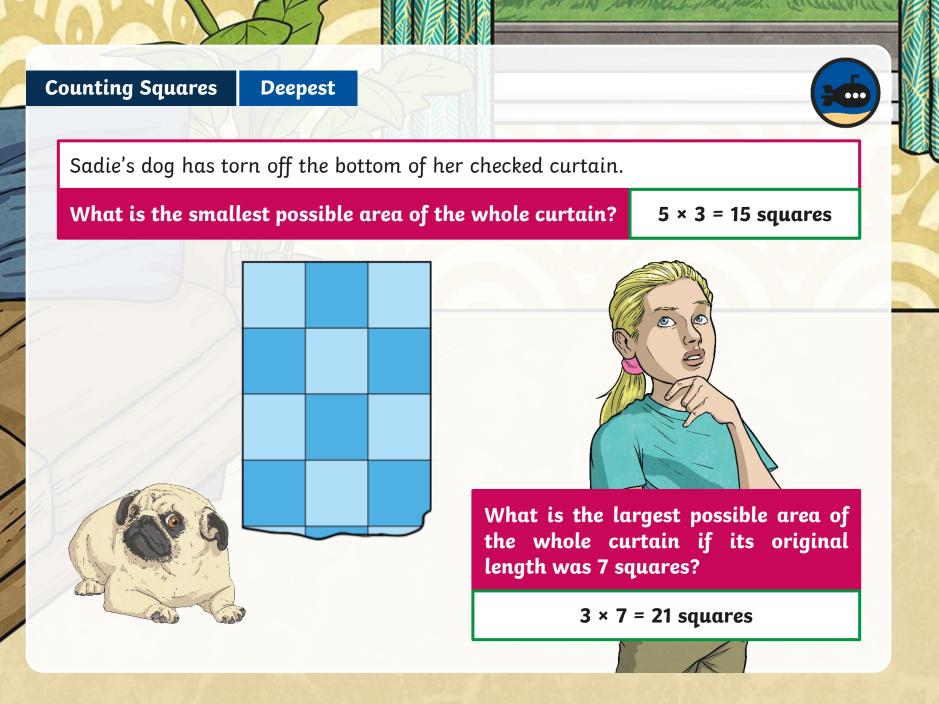




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The tablecloth has 5 rows with 5 squares in each row.

5 × 5 = 25 squares



Dive in by completing your own activity!

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