## Week 13, Day 4

## Find areas of squares and rectangles in cm<sup>2</sup>.

## Each day covers one maths topic. It should take you about 1 hour or just a little more.

If possible, watch the **PowerPoint presentation** 1. with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- 2. Tackle the questions on the **Practice Sheet**. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.
- Finding it tricky? That's OK... have a go with a 3. grown-up at A Bit Stuck?

Think you've cracked it? Whizzed through the Practice Sheets? 4. Have a go at the Investigation...





2.2 2.3 2.4 2.5 2.6 2.7 2.8





## **Learning Reminders**



## **Learning Reminders**

Find areas of squares and rectangles in cm<sup>2</sup>.

If the school hall was having a new floor and the price was based on its area, how could we calculate the area? Would we measure it in square centimetres?

The hall's length and width would be measured in metres, so the area would be a number of square metres, **m**<sup>2</sup>.

# 12m<sup>2</sup>, 120m<sup>2</sup>, 12cm<sup>2</sup>, 28cm<sup>2</sup>, 100mm<sup>2</sup>, 28mm<sup>2</sup>

Which of these could be the area of a bedroom floor? The surface area of a little finger nail? One face of a credit card?

> Answers Finger nail is 100mm<sup>2</sup> Credit card is 28**cm<sup>2</sup>** Bedroom floor is 12m<sup>2</sup>



## Practice Sheet Mild Finding areas of rectangles

Work out the areas of all these rectangles.

Write the answer inside each rectangle.

	4 cm		5 cm	
		2 cm		5 cm
3 cm				
			4 cm	
	4 cm		5 cm	
2 cm				
		3 cm		
				8 cm
			1 cm	
	6 cm			7 cm
2 cm			2 cm	

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## Work in pairs, but draw and label your own rectangles

### Things you will need:

- · 3-6 cards and 2-9 cards
- cm<sup>2</sup> paper
- A ruler
- A pencil

### What to do:

- Write '<u>Across</u>' on the top left of a piece of paper, and '<u>Down</u>' on the top right side.
- Shuffle a set of 3, 4, 5 and 6 cards and place face down under the title 'Across'. Shuffle a set of 2 to 9 cards and place face down under the title 'Down'.
- Turn the top card over in each pile. Draw a rectangle on the squared paper. The first card tells you how far across the rectangle needs to go. The second card tells you how far down the rectangle needs to go.
- How many squares are in the top row? Use clever counting to work out the area of the rectangle. Write the area inside the rectangle.

## S-t-r-e-t-c-h:

Work out the areas of these two rectangles: Now check your answers by drawing them on squared paper.

### Learning outcomes:

- I can use 'clever counting' to find the area of a rectangle.
- I am beginning to calculate the areas of rectangles not drawn on squared paper.

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