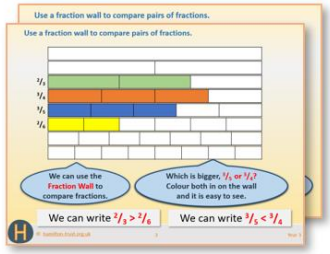
Week 13, Day 4

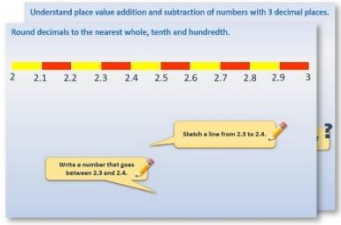
Find areas of squares and rectangles in cm^2.

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

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



OR start by carefully reading through the **Learning Reminders**.



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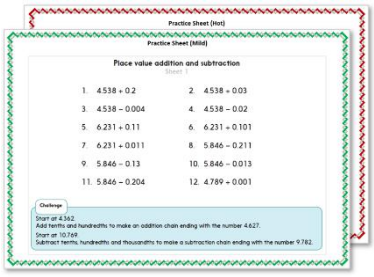
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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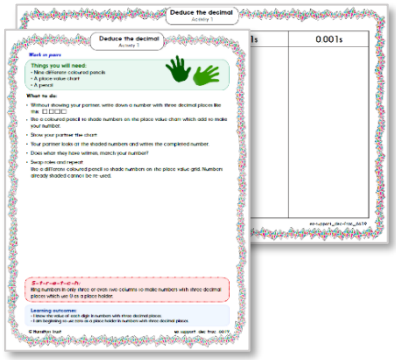
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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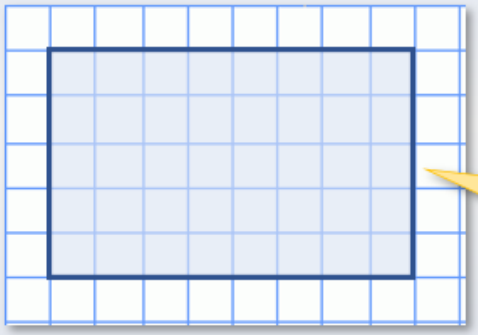
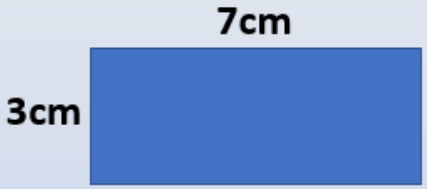
4. Think you've cracked it? Whizzed through the Practice Sheets?
Have a go at the **Investigation**…

Learning Reminders

Find areas of squares and rectangles in cm^2.



What is the area of this rectangle? Do we need to count the squares in every row? Why not?



How many *square centimetres* would be inside this rectangle?

How do you know? How can you calculate the area of the rectangle *without* counting squares?

To find the area, we can *multiply the length by the width*. We abbreviate square centimetres to cm^2.

Learning Reminders

Find areas of squares and rectangles in cm^2.

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^2.

$12m^2$, $120m^2$, $12cm^2$, $28cm^2$, $100mm^2$, $28mm^2$

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

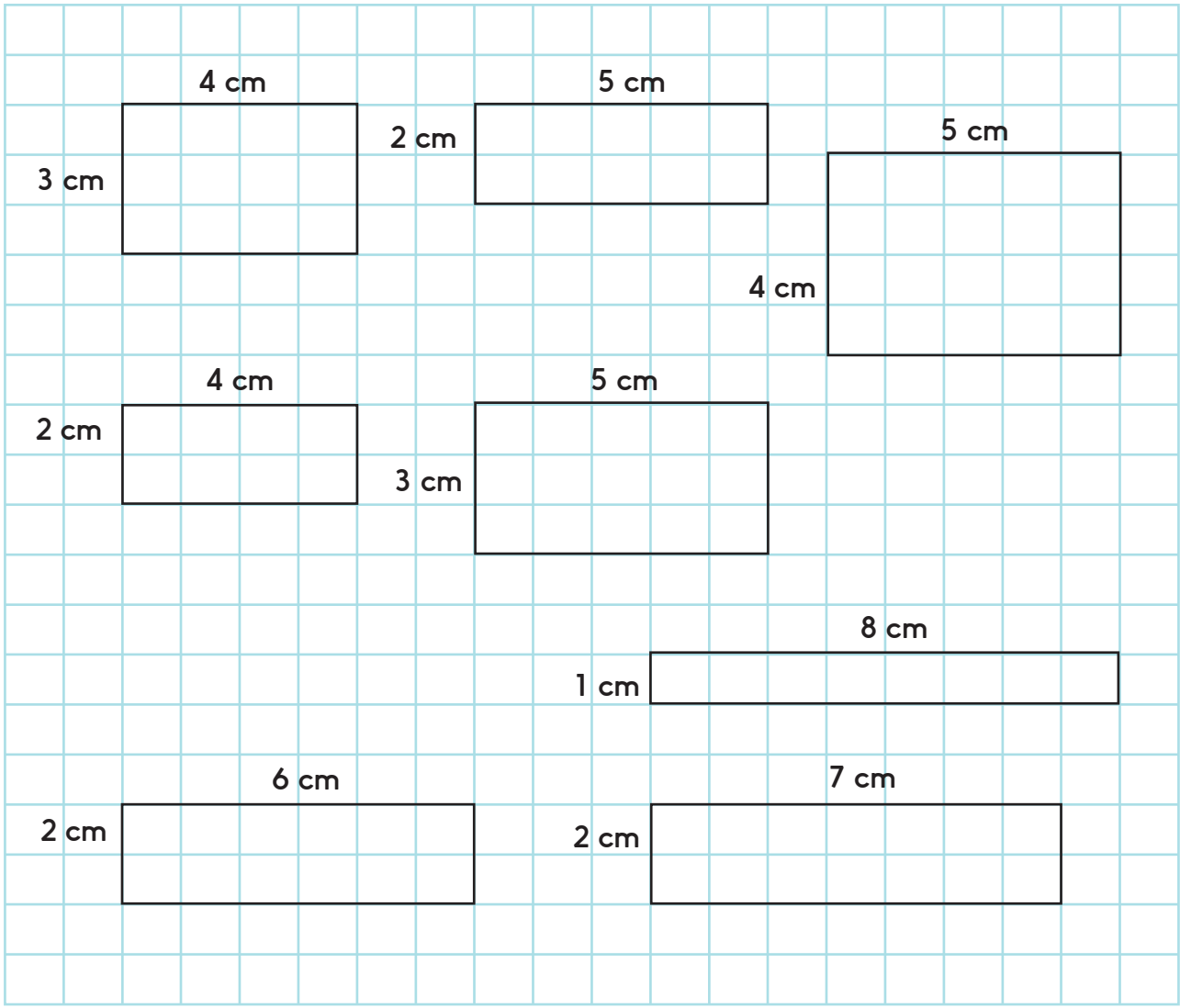
Finger nail is $100mm^2$
Credit card is $28cm^2$
Bedroom floor is $12m^2$

Practice Sheet Mild

Finding areas of rectangles

Work out the areas of all these rectangles.

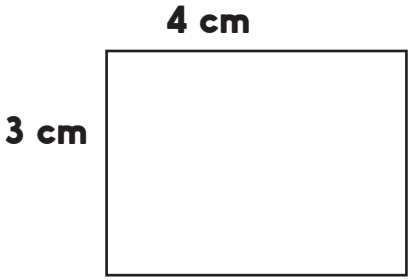
Write the answer inside each rectangle.

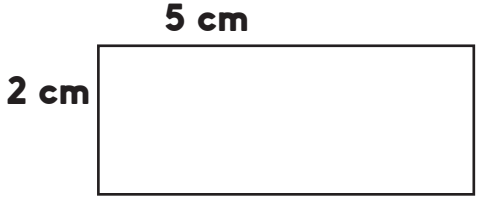


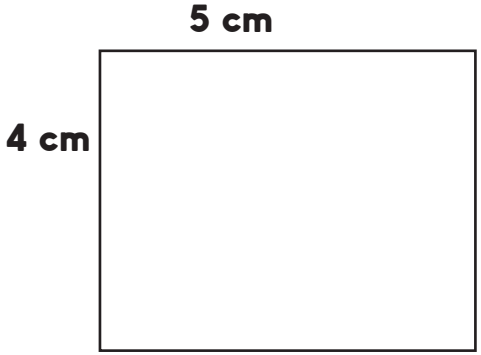
Practice Sheet Hot

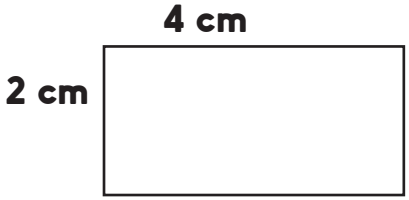
Finding areas of rectangles

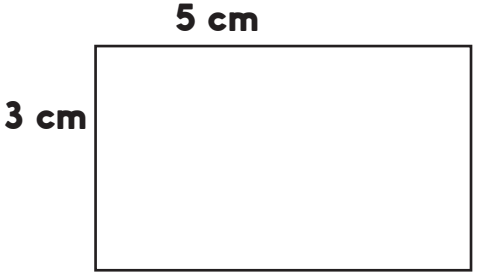
Work out the areas of all these rectangles. Write the answer inside each rectangle.

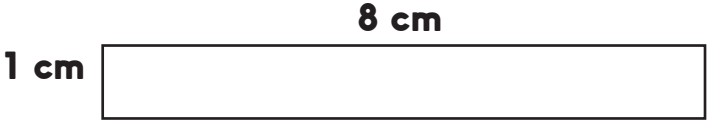


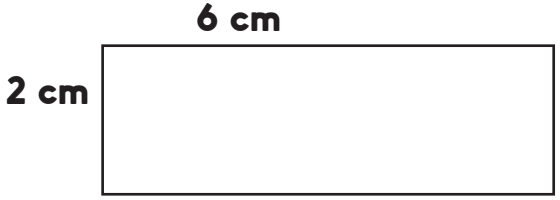


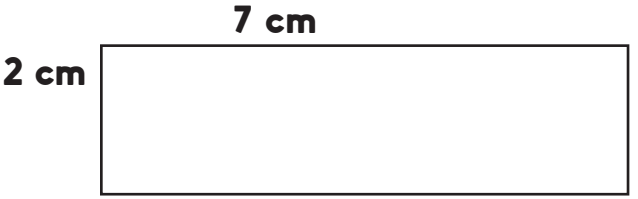












Challenge

Draw at least three different rectangles with an area of 24cm^2. Which has the greatest perimeter?