## Week 11, Day 3

## Find the perimeter of rectangles

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.

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

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

## Learning Reminders



## Learning Reminders

Find the perimeter of rectangles.

$(5 \mathrm{~cm} \times 2)+(3 \mathrm{~cm} \times 2)=16 \mathrm{~cm}$
or
$(5 \mathrm{~cm}+3 \mathrm{~cm}) \times 2=16 \mathrm{~cm}$

## Learning Reminders

Find the perimeter of rectangles.


## Practice Sheets Answers

$$
\begin{aligned}
& \text { Perimeter of rectangles (mild) } \\
& 7 m+5 m+7 m+5 m=24 m \\
& 12 m+5 m+12 m+5 m=34 m \\
& 15 m+4 m+15 m+4 m=38 m \\
& 6 m+6 m+6 m+6 m=24 m \\
& \\
& \text { Perimeter of rectangles (hot) } \\
& 7 m+3 m+7 m+3 m=20 m \\
& 10 m+4 m+10 m+4 m=28 m \\
& 5 m+5 m+5 m+5 m=20 m \\
& 22 m+10 m+22 m+10 m=64 m \\
& 8 m+6 m+8 m+6 m=28 m
\end{aligned}
$$

## Challenge

Rectangles with a perimeter of 40 cm will have a longer and shorter side that add to 20 cm (so doubling to 40 cm ).
Whole number answers include all the pairs to 20 ,
i.e. $19 \mathrm{~cm}+1 \mathrm{~cm}, 18+2,17+3$ etc.

Children may also give one of many solutions that do not use whole numbers. As long as the pair adds to 20, these are correct, e.g. $10.5 \mathrm{~cm}+9.5 \mathrm{~cm}, 15.1+4.9 .13 .75+6.25$ etc.

## A Bit Stuck? Maths on the edge

## Work in pairs

Things you will need:

- A pencil
- Lots of $\mathrm{cm}^{2}$ paper


## What to do:

- Take it in turns to draw a rectangle on squared paper, making sure that each side is a whole number of centimetres. At least one side must be longer than 10 cm .
- Find the lengths of two different sides.
- One person adds these two sides, then doubles the answer to find the perimeter.
- The other person adds the four sides together to find the perimeter.
- Check that you both get the same answer.
- Once agreed, write the perimeter by the rectangle.
- Swap roles and repeat.


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

Try and draw a rectangle with a perimeter of 14 cm .

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Learning outcomes:
- I can find the perimeter of a rectangle by finding the total of all four sides.
- I can add and double 2-digit numbers.
- I am beginning to find the perimeter by doubling the total of two adjacent sides.
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