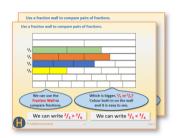
Week 11, Day 3

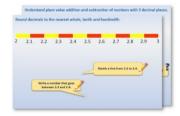
Find the perimeter of rectangles

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**.



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

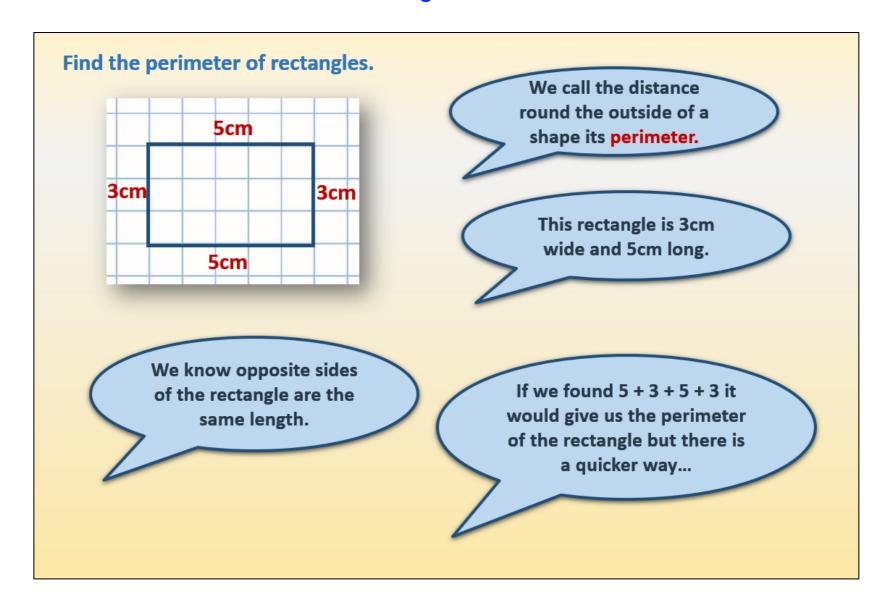


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



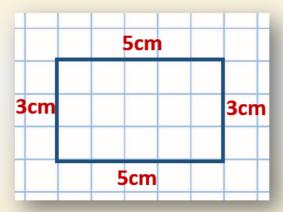
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

Learning Reminders



Learning Reminders

Find the perimeter of rectangles.

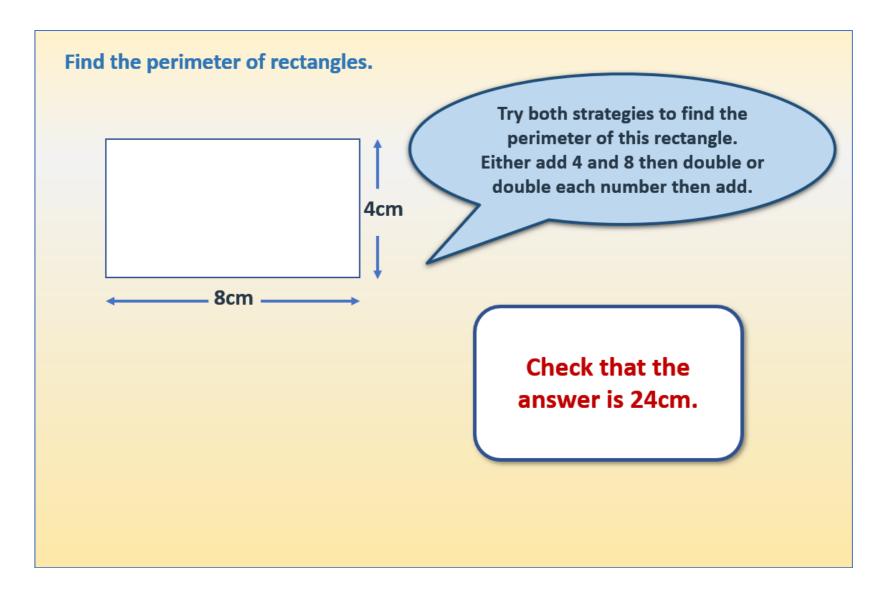


We can double the width and then double the length and add the two together to find the perimeter, or add the width and the length and then double the total.

$$(5cm \times 2) + (3cm \times 2) = 16cm$$

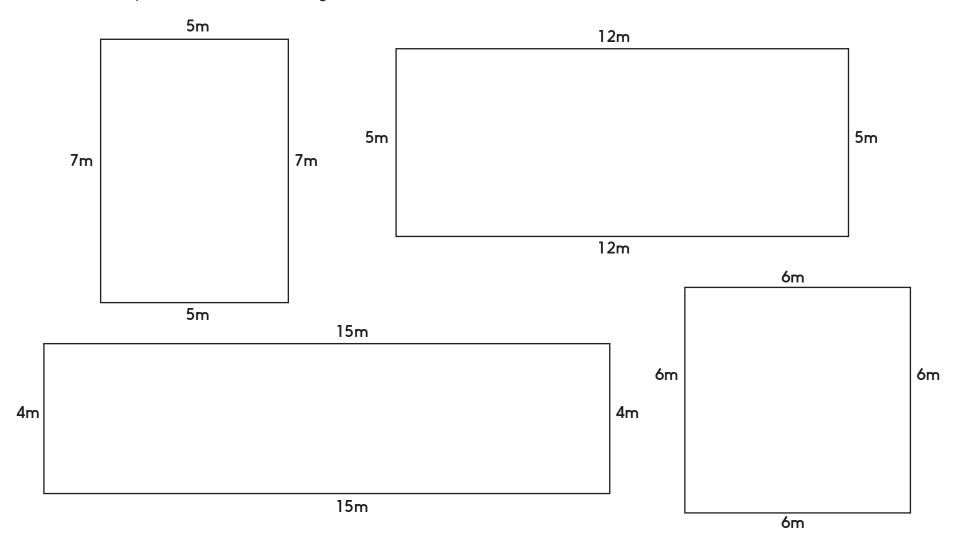
or
 $(5cm + 3cm) \times 2 = 16cm$

Learning Reminders



Practice Sheet Mild Perimeter of rectangles

Calculate the perimeter of each rectangle.



Practice Sheet Hot Perimeter of rectangles Calculate the perimeter of each rectangle. 10m 3m 5m 4m 7m 22m 8m 6m 10m Challenge Draw a square with sides of 10cm. Now draw other rectangles with a perimeter of 40cm. © Hamilton Trust Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

Practice Sheets Answers

Perimeter of rectangles (mild)

7m + 5m + 7m + 5m = 24m 12m + 5m + 12m + 5m = 34m 15m + 4m + 15m + 4m = 38m6m + 6m + 6m + 6m = 24m

Perimeter of rectangles (hot)

7m + 3m + 7m + 3m = 20m 10m + 4m + 10m + 4m = 28m 5m + 5m + 5m + 5m = 20m 22m + 10m + 22m + 10m = 64m8m + 6m + 8m + 6m = 28m

Challenge

Rectangles with a perimeter of 40cm will have a longer and shorter side that add to 20cm (so doubling to 40cm).

Whole number answers include all the pairs to 20,

i.e. 19cm + 1cm, 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 cm + 9.5 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 cm² 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 10cm.
- 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 14cm.

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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A Bit Stuck? Maths on the edge © Hamilton Trust Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

