Week 11, Day 4

Find the perimeter of rectilinear shapes

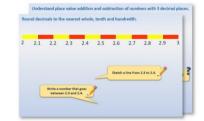
Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders. They come from our *PowerPoint* slides.

- 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?

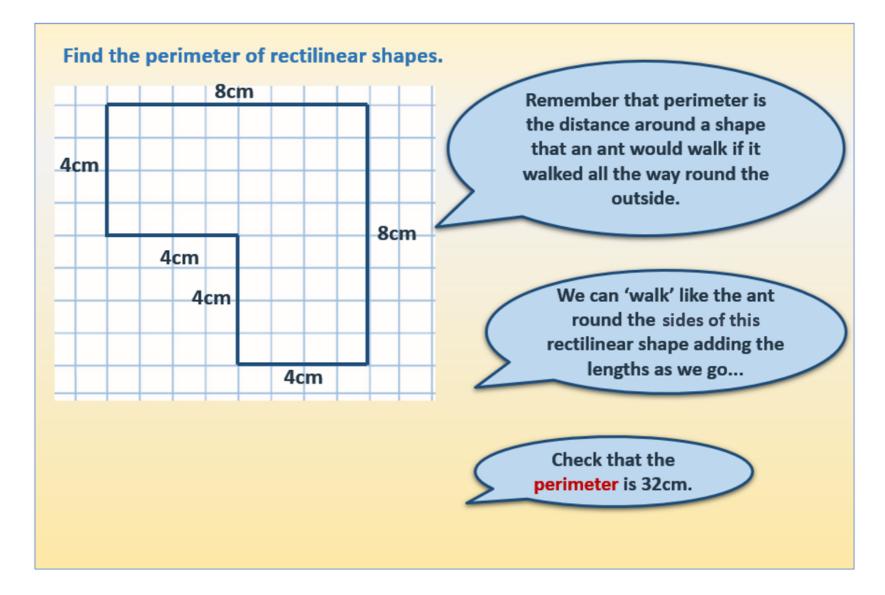
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...



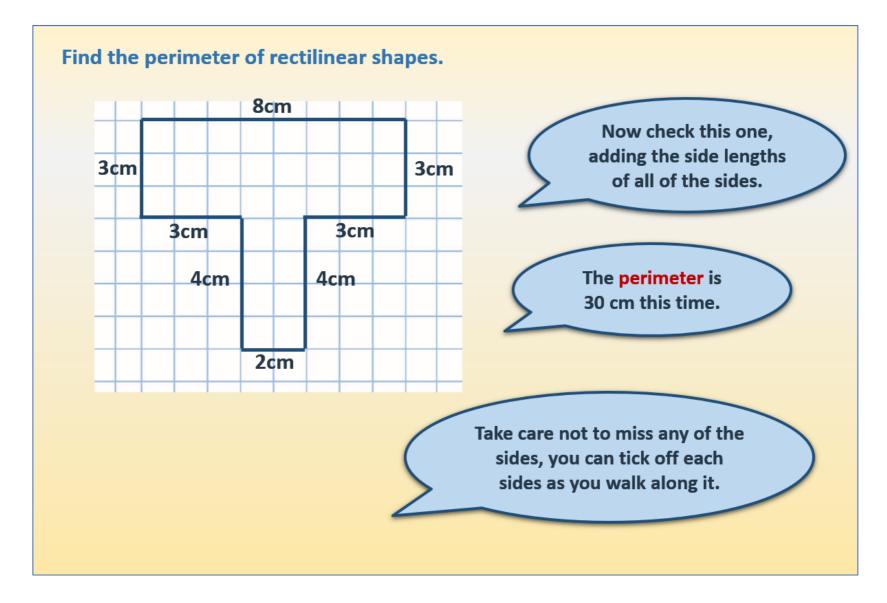




Learning Reminders



Learning Reminders

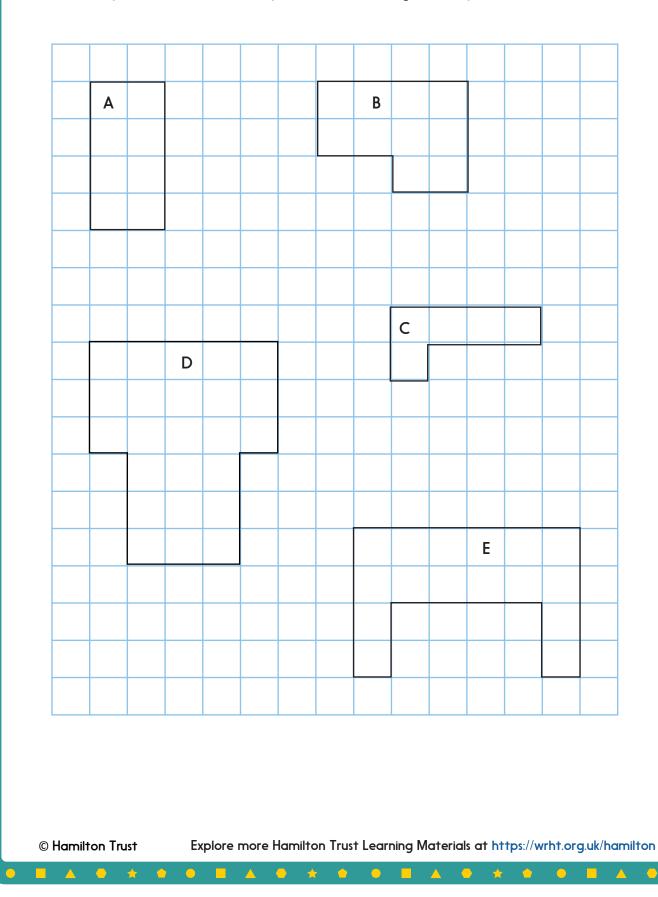


Practice Sheet Mild Perimeters

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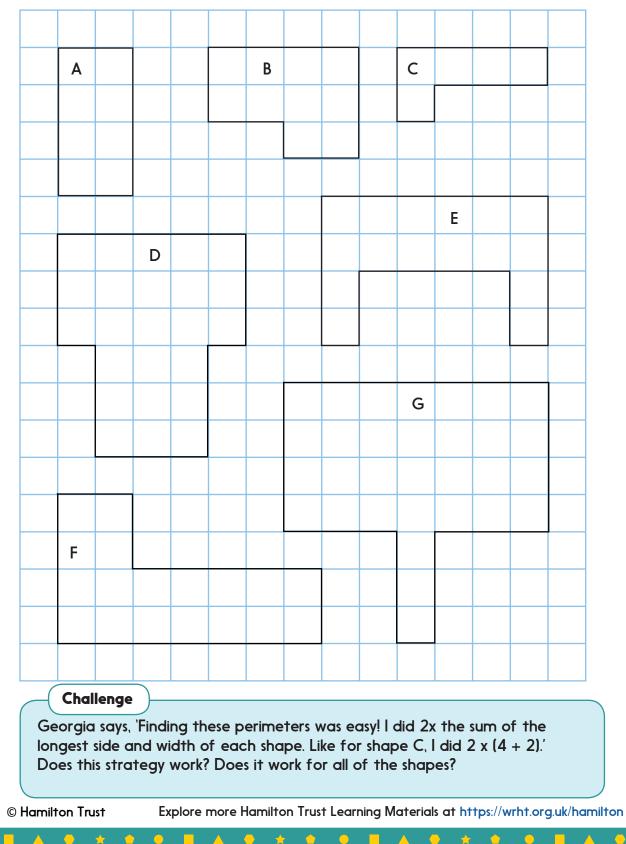
Label these shapes to show the length of each side in centimetres. Then find the perimeter of each shape. Which has the greatest perimeter?

 \mathbf{A}



Practice Sheet Hot Perimeters

Which of these shapes has the greatest perimeter? Find the perimeter of these shapes. Write the perimeter in each shape.



Practice Sheets Answers

Perimeters (mild)

- A = **12cm**
- B = **14cm**
- C = **12cm**
- D = 22cm
- E = 24cm, and has the largest perimeter

Perimeters (hot)

- A = **12cm**
- B = 14cm
- C = **12cm**
- D = 22cm
- E = 24cm
- F = **22cm**
- G = **28cm**

Shape G has the largest perimeter.

Challenge

This works for all shapes, except E. The strategy works when a corner has been 'pushed in', e.g.

has the same perimeter as

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A Bit Stuck? Calculating the perimeter of rectangles by doubling Calculate the perimeters of these rectangles from the length of two sides. Remember to find the total and double. Complete the table as far as you can, starting with bronze. Double the Length of short Length of long Total of sides total to find side side given the perimeter 5cm 3cm 6cm 2cm 8cm 4cm 12cm 8cm 15cm 10cm 20cm 5cm 28cm 22cm 64cm 36cm

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Do any of the rectangles have the same perimeter?

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Calculating the perimeter of rectangles by doubling

Length of long side	Length of short side	Total of sides given	Double the total to find the perimeter
5cm	5cm 3cm		lócm
6cm	2cm	8cm	lócm
8cm	4cm	12cm	24cm
12cm	8cm	20cm	40cm
15cm	10cm	25cm	50cm
20cm	5cm	25cm	50cm
28cm	22cm	50cm	100cm
64cm	36cm	100cm	200cm

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