5 PERIMETER AND AREA

White Rose Maths

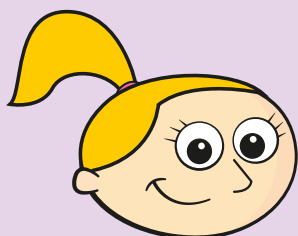**1** The shape is drawn on a centimetre square grid.
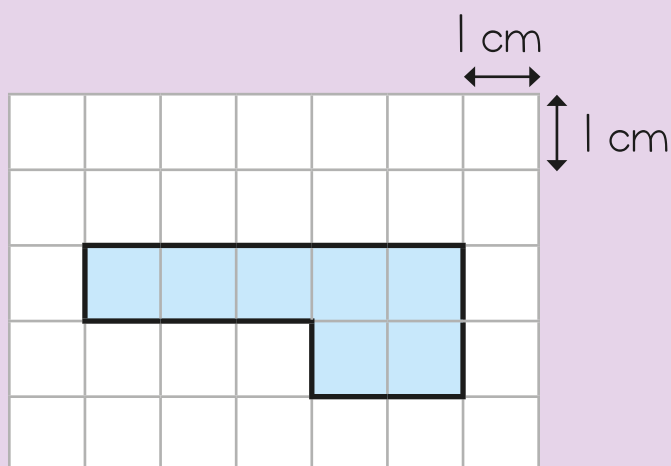
What is the area of the shape? ☐ cm²

What is the perimeter of the shape? ☐ cm

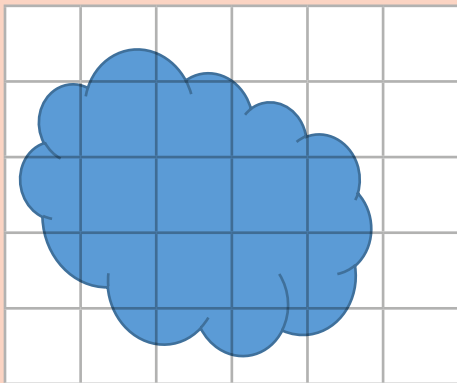**2**

The two rectangles have the same area, so they must have the same perimeter.

6 cm
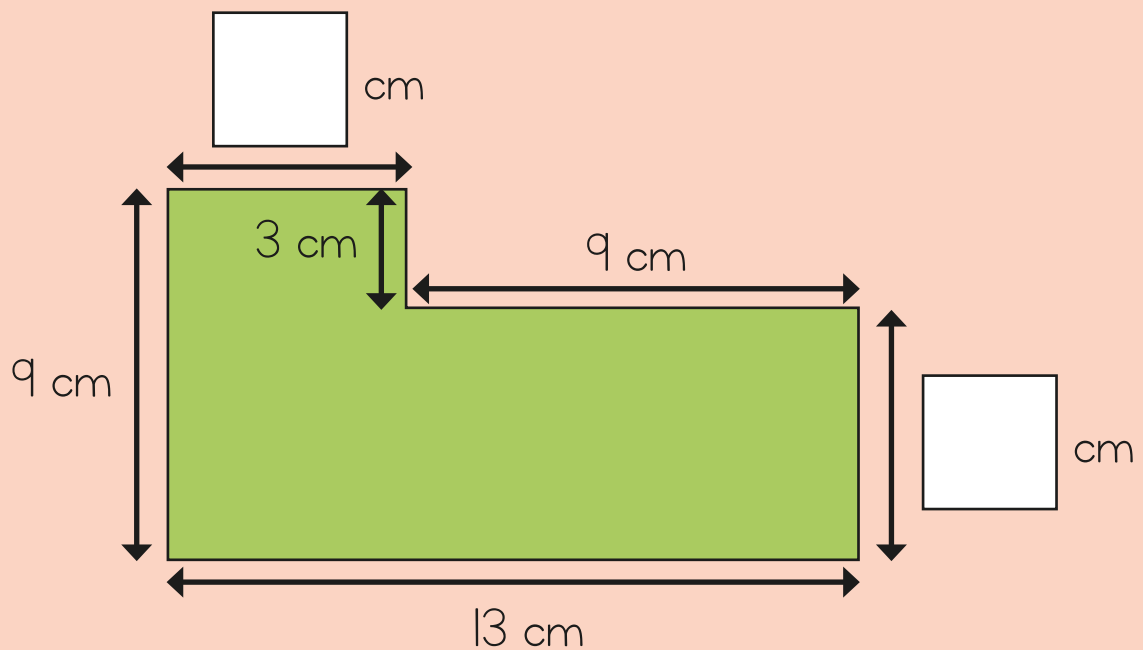4 cm
2 cm
12 cm
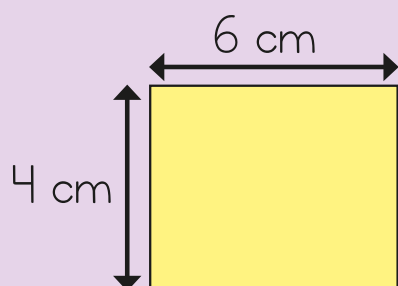
Explain why Eva is wrong.

3 Estimate, in squares, the area of the shape.

[ ] squares

4

[ ] cm

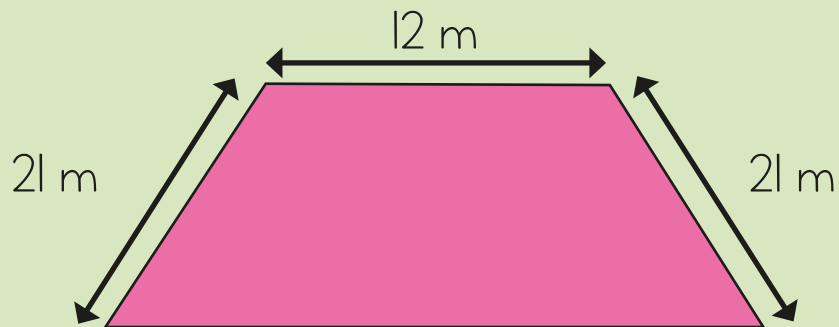3 cm

9 cm

9 cm

[ ] cm

13 cm

Fill in the missing lengths.

Work out the perimeter of the shape.

5 The perimeter of the shape is 70 m.
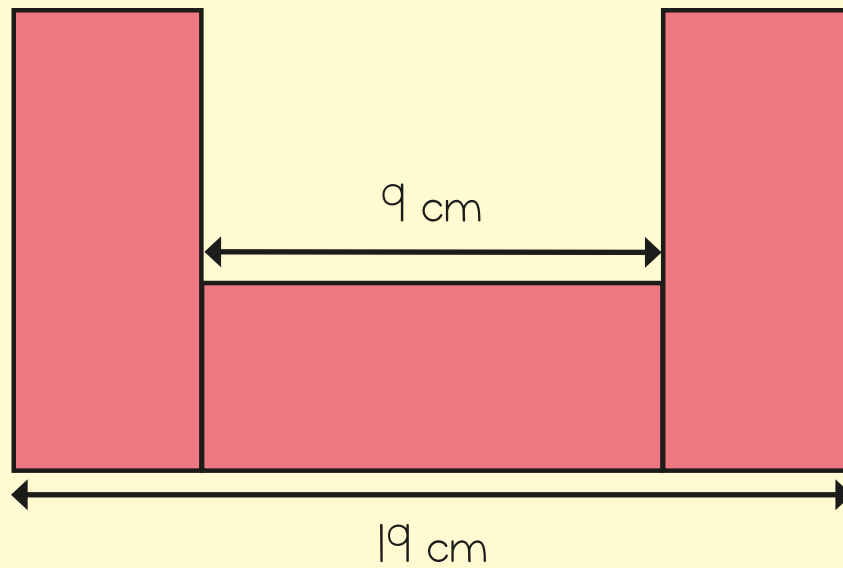
12 m

21 m   21 m

Work out the missing length.

6 Draw a rectangle that has an area of 30 cm^2 and a perimeter of 26 cm.
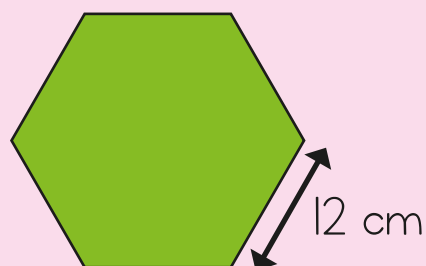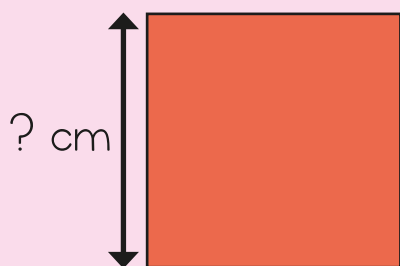
1 cm

1 cm

7 The shape is made up of three identical rectangles.

9 cm

19 cm

Work out the area of the shape.

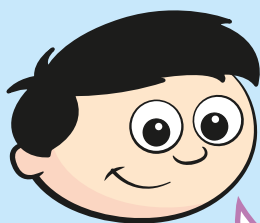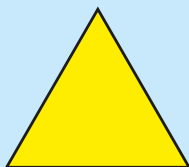**8** The square and the regular hexagon have the **same** perimeter.

? cm

12 cm

Work out the length of one side of the square.

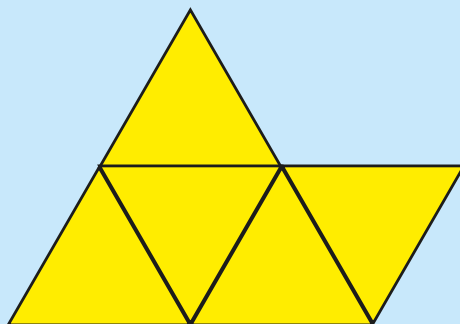**9** Ms Hall wants to paint a wall measuring 4 m by 9 m.

Each tin of paint covers 5 m^2

How many tins of paint will she need?

10 An equilateral triangle has a perimeter of 18 cm.

I have used five of the triangles to make this shape.

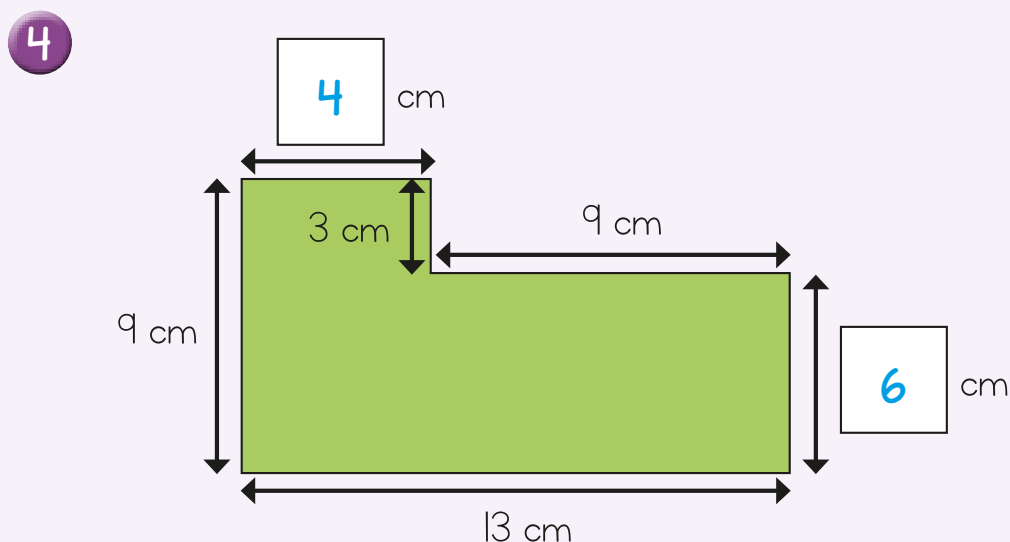What is the perimeter of the new shape Dexter has made?

Answers

1 7 cm^2

 14 cm

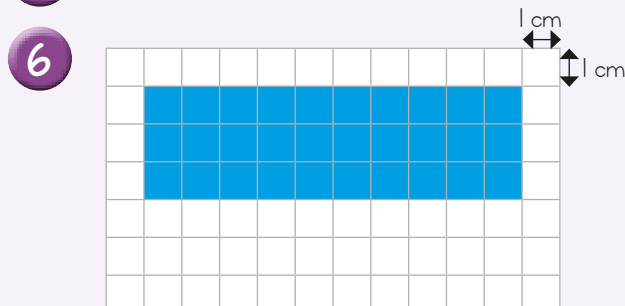**2** Eva is wrong because although the areas are equal, the perimeter of the first rectangle is 20 cm and the second is 28 cm.

3 14 squares

4

4 cm

3 cm

9 cm

9 cm

6 cm

13 cm

perimeter = 44 cm

5 16 m

6

1 cm

1 cm

7 135 cm^2

8 18 cm

9 8 tins

10 42 cm