Year 6

Perimeter, Area & Volume

Name _____

1 A rectangle is drawn on a centimetre square grid.
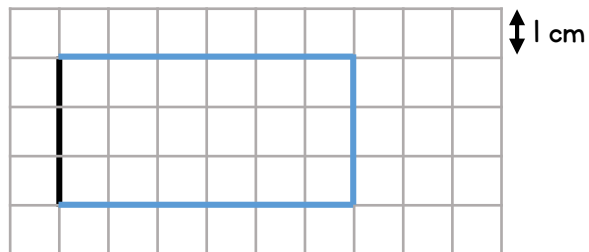
$\updownarrow$ 1 cm
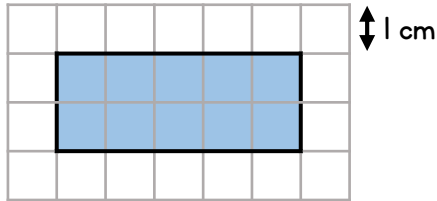
What is the area of the rectangle?

_____ 10 _____ cm² | 1 mark

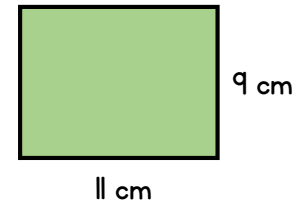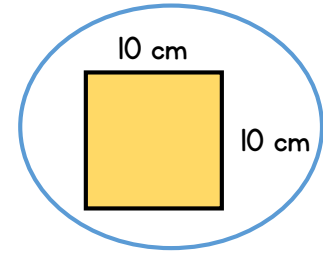What is the perimeter of the rectangle?

_____ 14 _____ cm | 1 mark
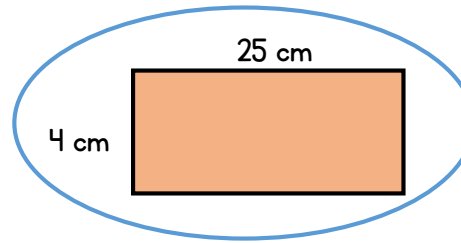
2 The perimeter of a rectangle is 18 cm.
One of the sides is shown.

$\updownarrow$ 1 cm

Complete the rectangle.

1 mark

3 Circle the shapes that have an area of 100 cm²

25 cm
4 cm

10 cm
10 cm

1 m
1 cm

9 cm
11 cm
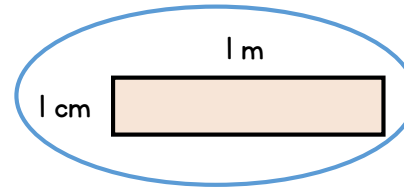
1 mark for 2 correct.

2 marks

4 Work out the area of each triangle.
Give units with your answer.

6 cm
6 cm

3 mm
5 mm

_____ 18 cm² _____   _____ 7.5 mm² _____

3 marks
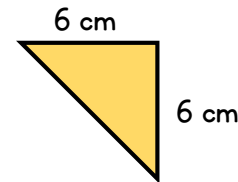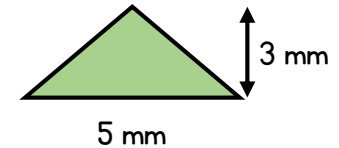
1 mark for each correct area and 1 mark for units.

5 Max says that the area of the parallelogram is 50 cm^2

5 cm   4 cm   10 cm
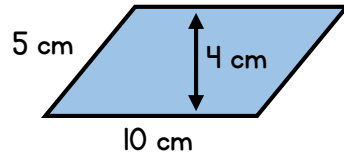
What mistake has he made?

He has used 5 cm as the perpendicular height.

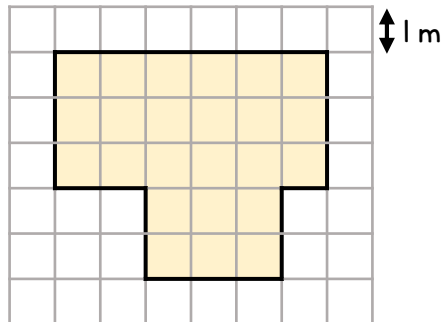What is the correct area?

_____40___ cm^2

6

Rectangles that have the same area, have the same perimeter.

Is Teddy correct? Explain your answer.

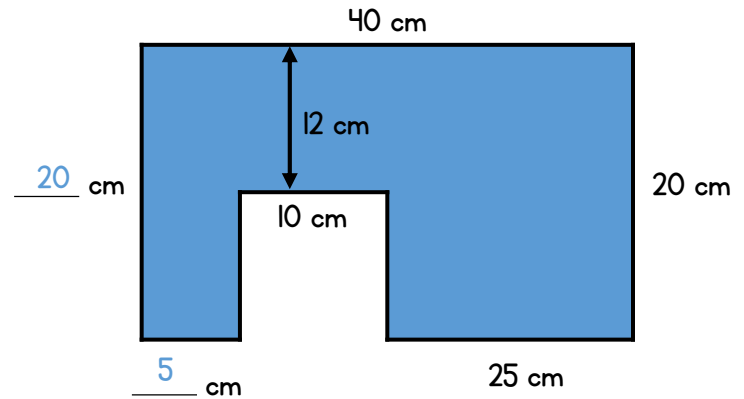No e.g. a 3 by 5 rectangle has an area of 15 but a perimeter of 16

7 The diagram shows the layout of a garden.
A fence is to be built around the garden.
What is the length of fence needed?

1 m

_____22___ m

8 Find the missing lengths.

40 cm

12 cm

__20__ cm   10 cm   20 cm

__5__ cm   25 cm

What is the area of the shape?
Show all your working.

I mark for correct method with I error.

_____720___ cm^2

9 Work out the volume of the cuboid.

6 cm

5 cm

8 cm
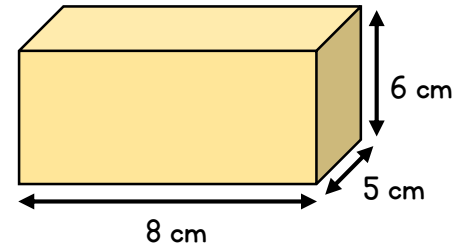
I mark for correct method with I error.   _____240___ cm^3

Circle how confident you feel with perimeter, area & volume.

1   2   3   4   5
Not   Very
confident   confident