JRA Tutors
Private tuition and small online Study Pods

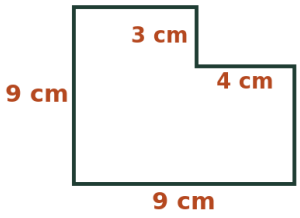
Area of Compound Shapes

Grade 3 topic · Foundation and Higher · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (50 marks) and have a go at the rest. Higher students: complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 75 marks.

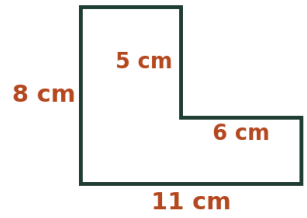
Warm-up

1 Work out the area of the shape. **[3 marks]**



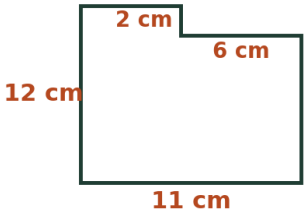
Answer _____

2 Work out the area of the shape. **[3 marks]**



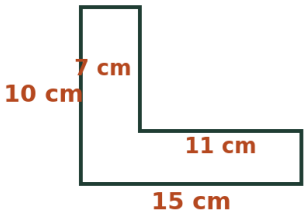
Answer _____

3 Work out the area of the shape. **[3 marks]**



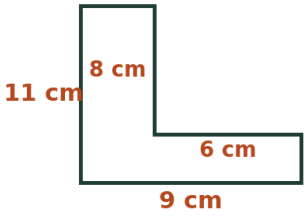
Answer _____

4 Work out the area of the shape. **[3 marks]**



Answer _____

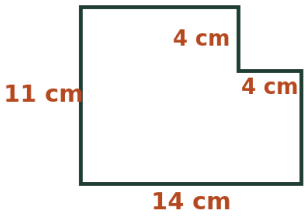
5 Work out the area of the shape. **[3 marks]**



Answer _____

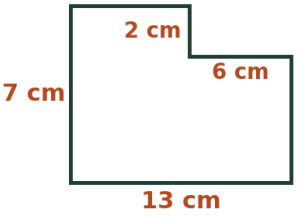
Core

6 Work out the perimeter of the shape. **[3 marks]**



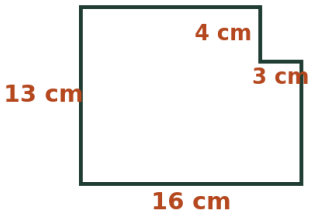
Answer _____

7 Work out the perimeter of the shape. **[3 marks]**



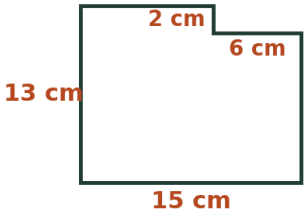
Answer _____

8 Work out the perimeter of the shape. **[3 marks]**



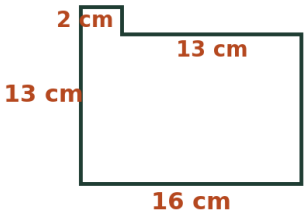
Answer _____

9 Work out the perimeter of the shape. **[3 marks]**



Answer _____

10 Work out the perimeter of the shape. **[3 marks]**



Answer _____

Stretch

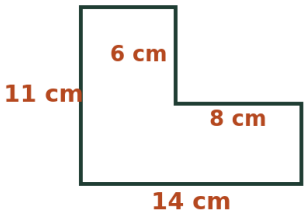
11 A shape is made from a rectangle 6 cm by 6 cm with a right-angled triangle of base 6 cm and height 14 cm on top of the 6 cm side. Work out the total area. **[4 marks]**

Answer _____

12 A square of side 5 cm is joined to a rectangle 9 cm by 5 cm. Work out the total area. **[3 marks]**

Answer _____

13 Work out the area and perimeter of the shape. **[5 marks]**



Answer _____

14 A trapezium has parallel sides 7 cm and 16 cm and height 10 cm. Work out its area. **[4 marks]**

Answer _____

15 A rectangle 12 cm by 10 cm has a rectangular hole 6 cm by 5 cm cut out. Work out the area of the remaining shape. **[4 marks]**

Answer _____

Challenge

16 A path of width 2 m surrounds a rectangular lawn 22 m by 16 m. Work out the area of the path. **[5 marks]**

Answer _____

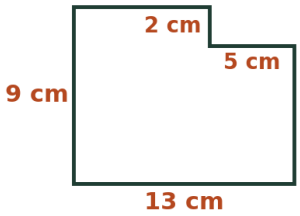
17 An L-shape has area 100 cm². It is made from a rectangle 12 cm by 10 cm with a corner square removed. Work out the side of the square. **[5 marks]**

Answer _____

18 A rectangle 10 cm by 6 cm has a semicircle of diameter 6 cm attached to one of its short sides. Work out the total area to 3 significant figures. **[5 marks]**

Answer _____

19 The shape shown is an L-shape. Work out the area of the shape if each dimension is doubled. **[5 marks]**



Answer _____

20 Work out the perimeter and area of an L-shape formed by two rectangles: 7 cm by 8 cm and 8 cm by 5 cm, joined along a side of 8 cm. **[5 marks]**

Answer _____