

Area of Compound Shapes

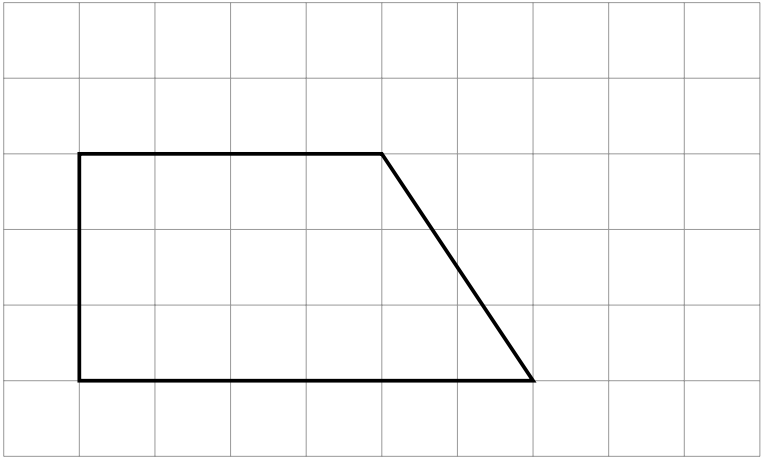
For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 The diagram shows a shape drawn on a centimetre grid.



Find the area of the shape.

..... cm²
(2)
(Total for Question 1 is 2 marks)

- 2 All the corners are right angles.

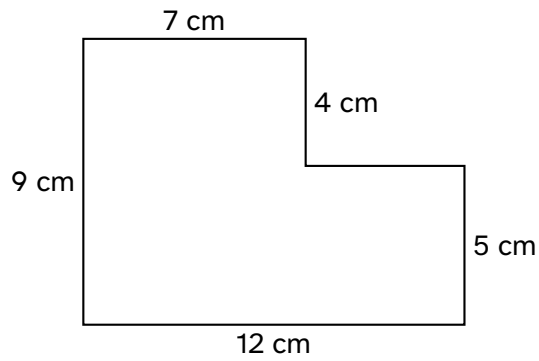


Diagram **NOT** accurately drawn

Work out the area of the shape.

..... cm^2
(3)

(Total for Question 2 is 3 marks)

- 3 The shape is made from a rectangle and a trapezium.

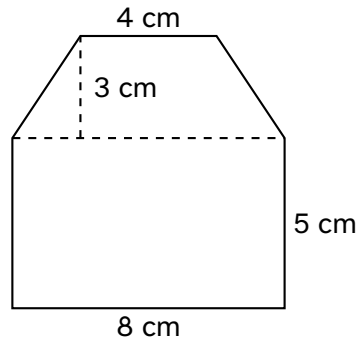


Diagram **NOT** accurately drawn

Work out the area of the shape.

..... cm²
(3)

(Total for Question 3 is 3 marks)

- 4 A picture 30 cm by 20 cm is in a frame.
The outside of the frame is 40 cm by 30 cm.

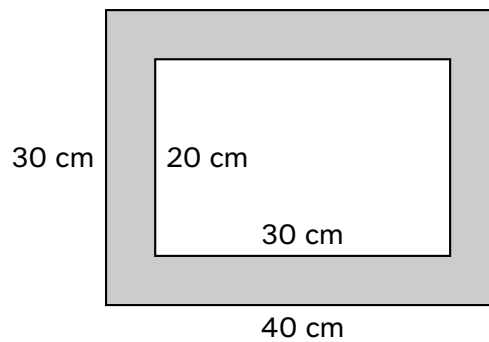


Diagram **NOT** accurately drawn

Work out the area of the frame (the shaded region).

..... cm^2
(3)

(Total for Question 4 is 3 marks)

- 5 The diagram shows the floor plan of a room.
All the corners are right angles.

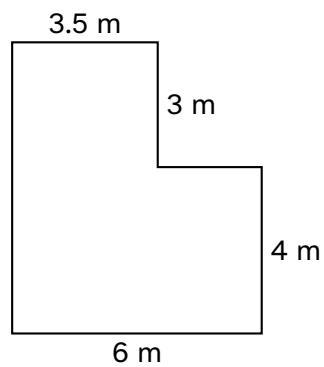


Diagram **NOT** accurately drawn

Carpet costs £18.50 per m^2
Work out the cost of carpet for the whole floor.

£
(4)

(Total for Question 5 is 4 marks)

- 6 The shape is made from a rectangle and an isosceles triangle.

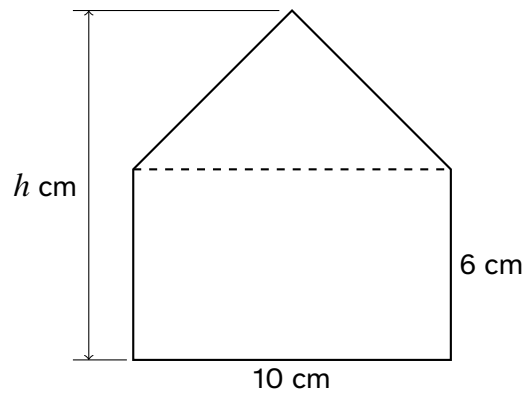


Diagram **NOT** accurately drawn

The total area of the shape is 85 cm^2
Work out the value of h .

$h = \dots\dots\dots$
(3)

(Total for Question 6 is 3 marks)

- 7 Three identical small rectangles fit together, with no gaps or overlaps, to make the large rectangle $ABCD$.
The perimeter of $ABCD$ is 60 cm.

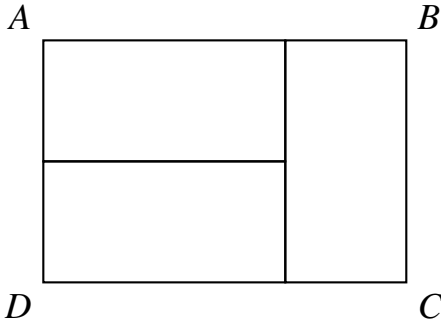


Diagram **NOT** accurately drawn

Work out the area of rectangle $ABCD$.

..... cm²
(5)

(Total for Question 7 is 5 marks)