

Area of Rectangles, Triangles, Parallelograms and Trapezia

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

Name _____

Total marks: **26**

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

1 Here is a triangle.

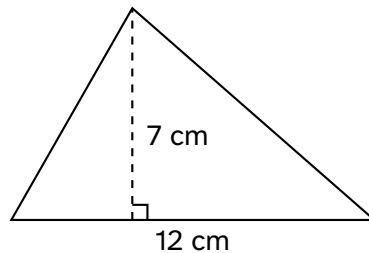


Diagram **NOT** accurately drawn

Work out the area of the triangle.

..... cm²
(2)

(Total for Question 1 is 2 marks)

- 2 Here is a trapezium.

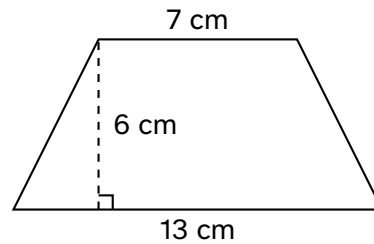


Diagram **NOT** accurately drawn

Work out the area of the trapezium.

..... cm²
(2)

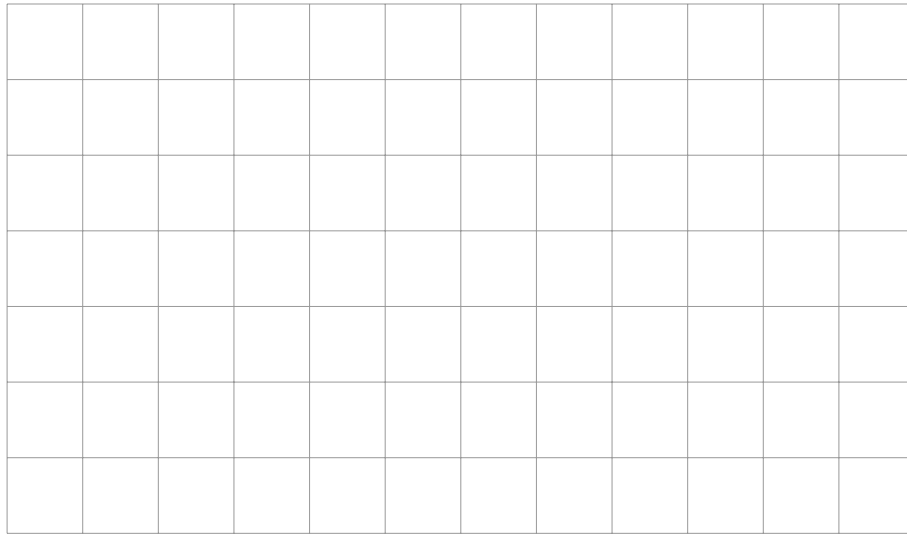
(Total for Question 2 is 2 marks)

- 3 A parallelogram has an area of 72 cm²
The base of the parallelogram is 12 cm.
Work out the perpendicular height of the parallelogram.

..... cm
(2)

(Total for Question 3 is 2 marks)

- 4** On the centimetre grid, draw a rectangle that has an area of 20 cm^2 and a perimeter of 18 cm.



(2)

(Total for Question 4 is 2 marks)

- 5** A rectangle is 9 cm long and 4 cm wide.
A triangle has the same area as the rectangle.
The base of the triangle is 8 cm.
Work out the perpendicular height of the triangle.

..... cm

(3)

(Total for Question 5 is 3 marks)

- 6 The diagram shows a square with a corner cut off.

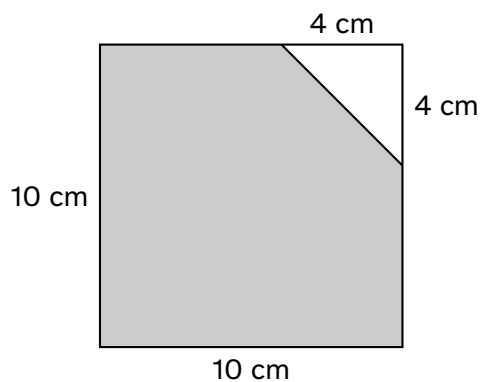


Diagram **NOT** accurately drawn

Work out the area of the shaded region.

..... cm^2
(3)

(Total for Question 6 is 3 marks)

- 7 The perpendicular height of a triangle is 3 times the length of its base.
The area of the triangle is 54 cm^2
Work out the length of the base of the triangle.

..... cm
(3)

(Total for Question 7 is 3 marks)

- 8** Sam is going to cover a rectangular floor with square tiles.
The floor is 4.2 m long and 3 m wide.
Each tile is 30 cm by 30 cm.
Tiles are sold in boxes of 10
Each box costs £16.50

Work out the total cost of the tiles Sam needs to buy.

£
(5)

(Total for Question 8 is 5 marks)

- 9 Here are a trapezium and a rectangle.

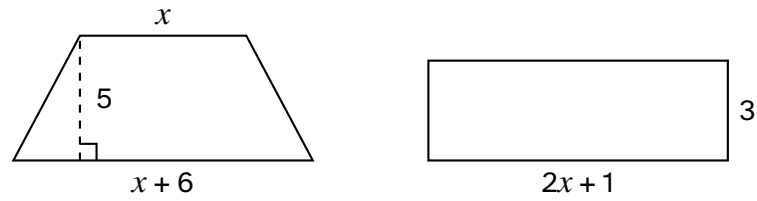


Diagram **NOT** accurately drawn

All measurements are in centimetres.

The trapezium and the rectangle have the same area.

Work out the area of the rectangle.

..... cm^2
(4)

(Total for Question 9 is 4 marks)