

Area of Compound Shapes

Mark Scheme

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Area of Compound Shapes
Grade Level	Grade 3
Booklet	Mark Scheme

Time Allowed: 36 minutes

Score: /30

Percentage: /100

Grade Boundaries:

1.

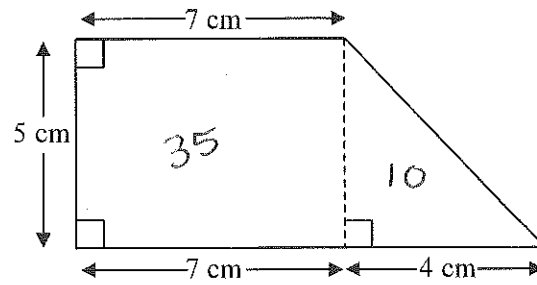


Diagram **NOT** accurately drawn

Work out the area of the shape.

$$5 \times 7 = 35$$

$$\frac{1}{2} \times 4 \times 5 = 10$$

..... 45 cm^2
(Total 3 marks)

2.

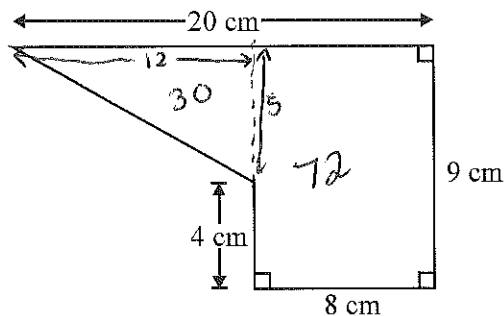


Diagram **NOT**
accurately drawn

The diagram shows a shape.
Work out the area of the shape.

$$8 \times 9 = 72$$

$$\frac{1}{2} \times 12 \times 5 = 30$$

..... 102 cm^2
(Total 4 marks)

3. Here is a trapezium.

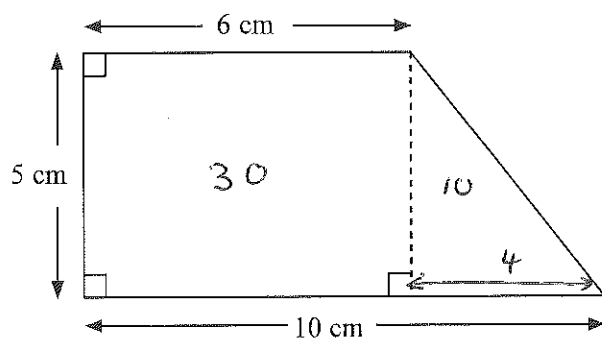


Diagram **NOT** accurately drawn

Work out the area of the trapezium.

$$5 \times 6 = 30$$

$$\frac{1}{2} \times 4 \times 5 = 10$$

..... 40 cm^2
(Total 2 marks)

4. The diagram shows a wall with a door in it.

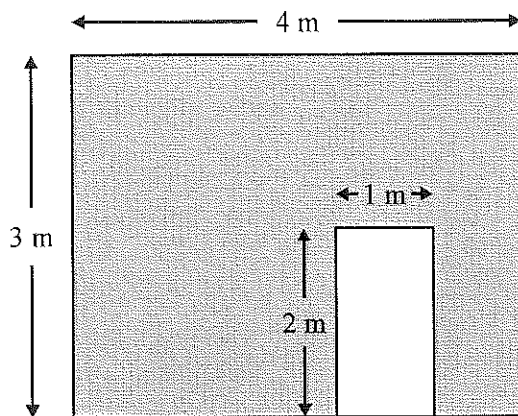


Diagram **NOT**
accurately drawn

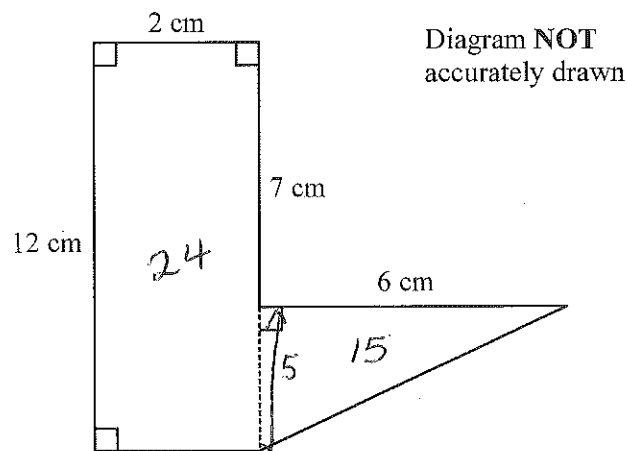
Work out the shaded area.

$$3 \times 4 = 12$$

$$1 \times 2 = 2$$

..... 10 m^2
(3)
(Total 3 marks)

5. The diagram shows a 6-sided shape made from a rectangle and a right-angled triangle.



Work out the total area of the 6-sided shape.

$$2 \times 12 = 24$$

$$\frac{1}{2} \times 6 \times 5 = 15$$

39 cm²
 (Total 3 marks)

6.

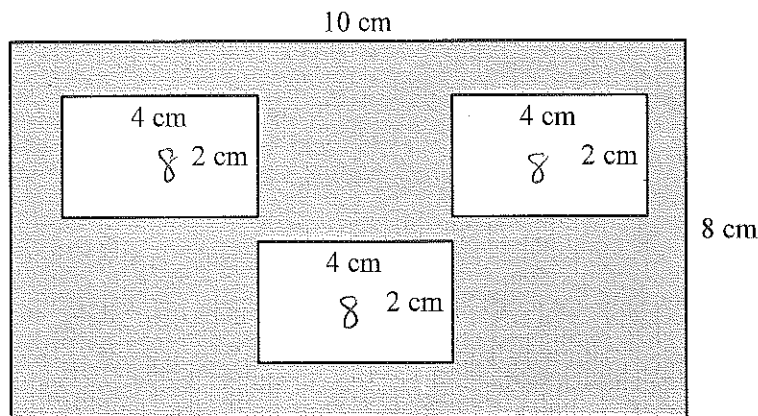


Diagram NOT
accurately drawn

The diagram shows 3 small rectangles inside a large rectangle.
The large rectangle is 10 cm by 8 cm.
Each of the 3 small rectangles is 4 cm by 2 cm.

Work out the area of the region shown shaded in the diagram.

$$10 \times 8 = 80$$

$$4 \times 2 = 8$$

$$80 - (3 \times 8)$$

$$80 - 24 = 56$$

.....56.....cm²
(Total 3 marks)

7.

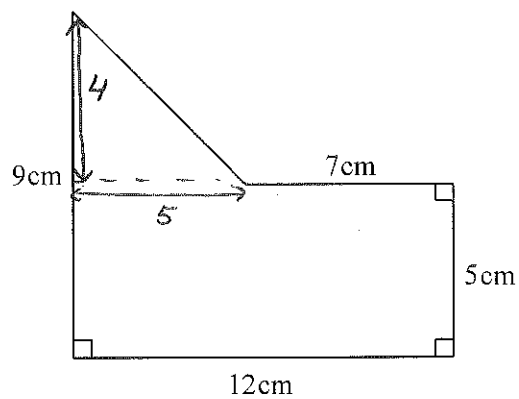


Diagram **NOT** accurately drawn

Work out the area of the shape.

$$12 \times 5 = 60$$

$$\frac{1}{2} \times 4 \times 5 = 10$$

.....70..... cm^2
(Total 4 marks)

8.

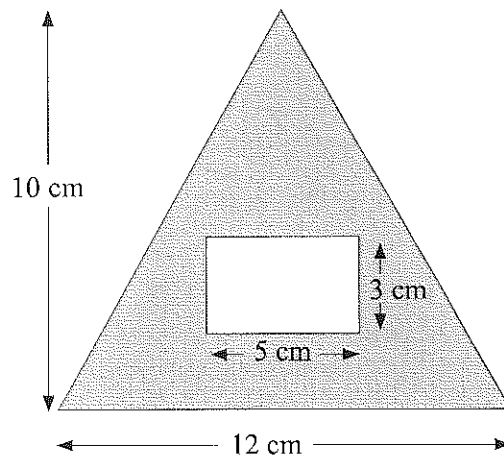


Diagram NOT accurately drawn

The diagram shows a rectangle inside a triangle.

The triangle has a base of 12 cm and a height of 10 cm.

The rectangle is 5 cm by 3 cm.

Work out the area of the region shown shaded in the diagram.

$$\frac{1}{2} \times 12 \times 10 = 60$$

$$3 \times 5 = 15$$

..... 45 cm²
(Total 3 marks)

9.

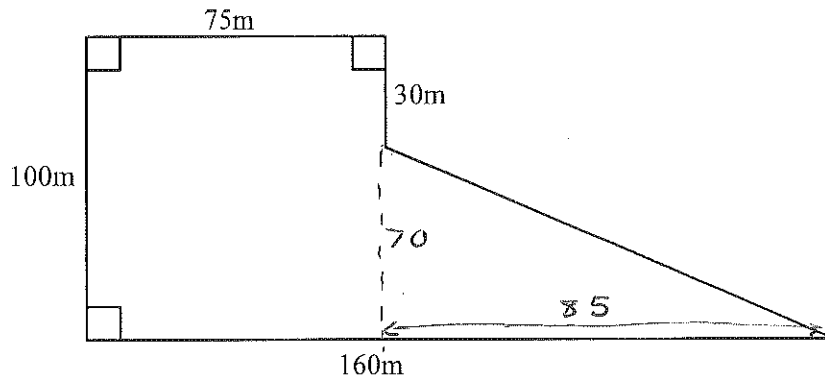


Diagram **NOT** accurately drawn

The diagram shows the plan of a field.

The farmer sells the field for £3 per square metre.

Work out the total amount of money the farmer should get.

$$\begin{array}{rcl}
 75 \times 100 & = & 7500 \\
 \frac{1}{2} \times 70 \times 85 & = & 2975 \\
 \hline
 & & 10475
 \end{array}$$

$$10475 \times 3$$

£ 31425

(Total 5 marks)