Areas of Compound Shapes Exam Practice
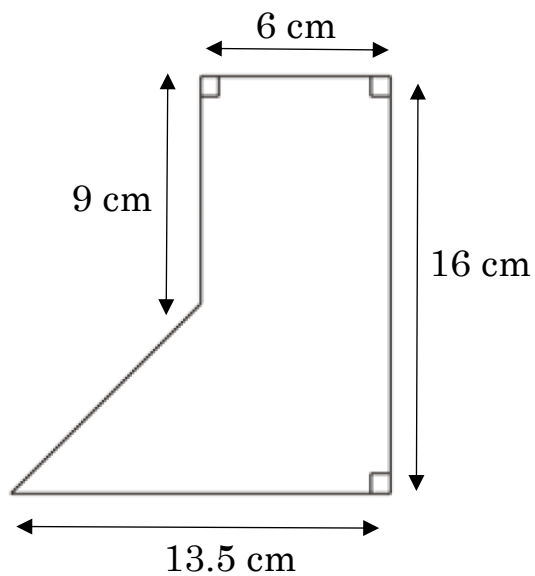
1. Work out the area of the shape below, stating the correct units.

10 cm

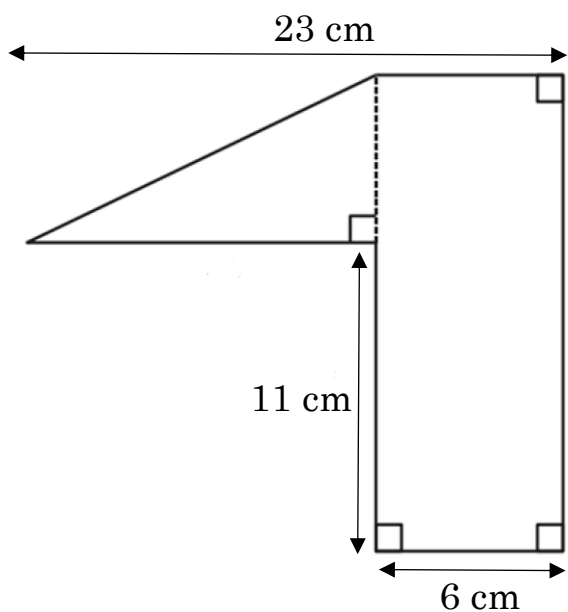18 cm

5 cm

24 cm
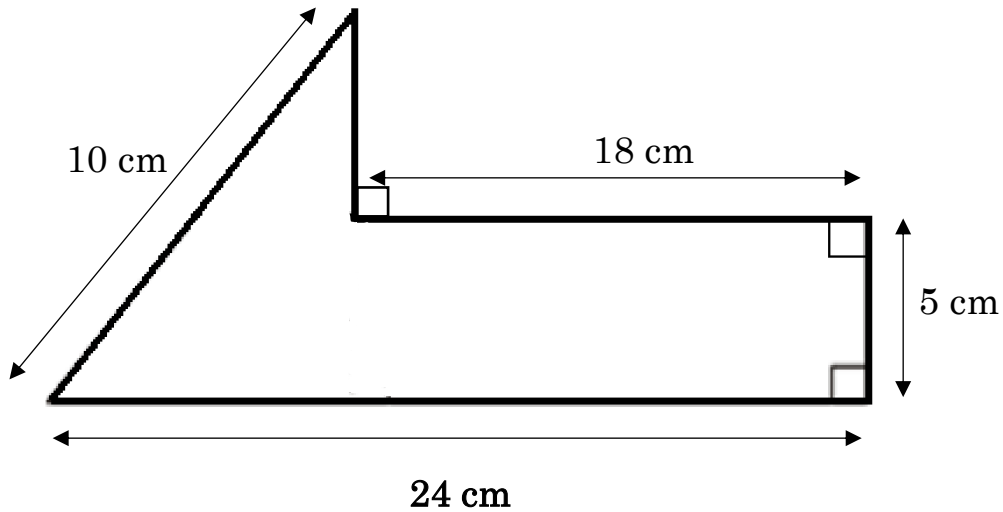
(4 marks)

2. Work out the area of the shape below, stating the correct units.

6 cm

9 cm

16 cm

13.5 cm
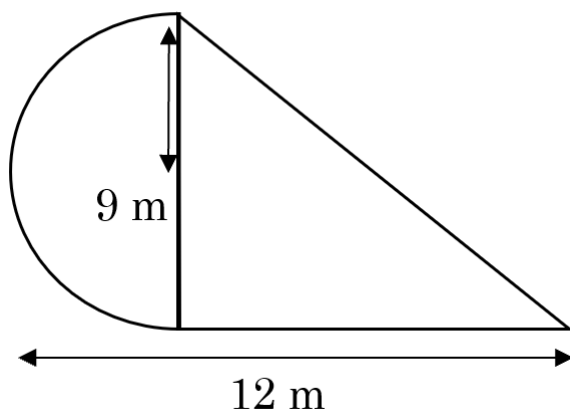
(4 marks)

3.

The area of the triangle is 68 cm². Work out the area of the entire 6-sided shape.

(4 marks)

4.
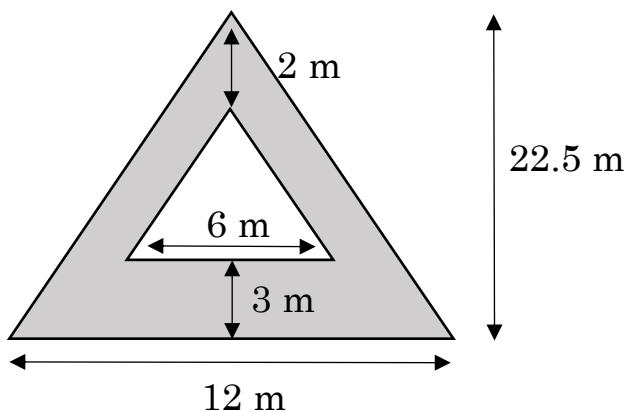

Find the shaded area of this shape, stating the correct units.
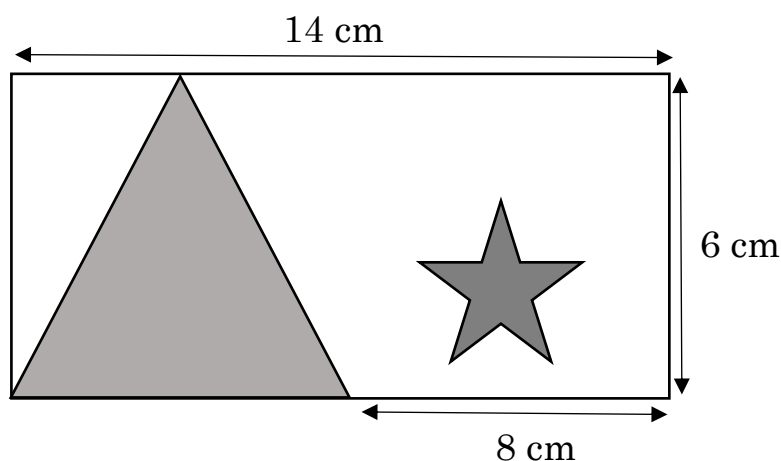
(4 marks)

5. The perpendicular height of the large triangle is 3 times that of the
   perpendicular height of the small triangle.

   Find the shaded area, stating the correct units.

   (4 marks)

6. A rectangular logo for a new tennis racket is shown below. The area of the
   star shaped region is 15% of the area of the entire logo. Work out the area
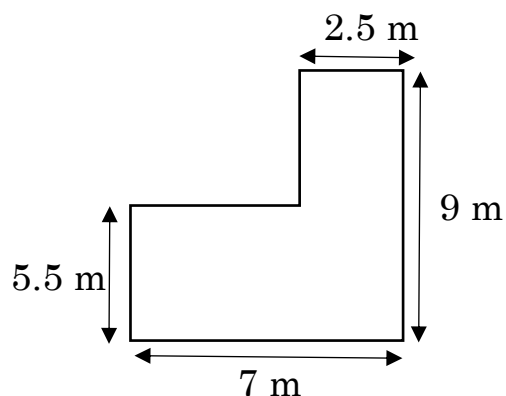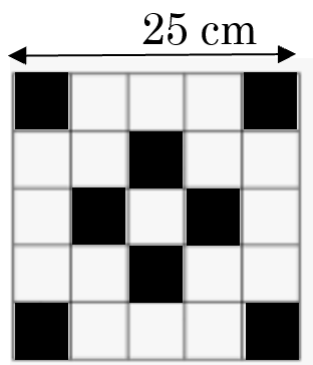   of the unshaded part of the logo.

   (4 marks)

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7. Here is the plan of a living room. Stan wish to cover 90% of the total area with carpet, which costs £2.50 a square metre. Work out the cost of carpeting his living room.

2.5 m

9 m

5.5 m

7 m

(4 marks)

8. A mosaic is to be created by repeating the following patterned square:

25 cm

If the mosaic is to measure 5m by 8m, work out the area of the white squares in the entire mosaic. Give your answer in metres squared.

(4 marks)