

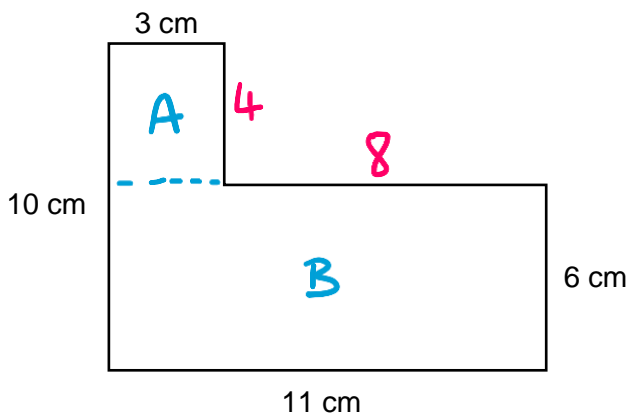


Compound Shapes



REVISE THIS
TOPIC

- 1 Here is a shape made from rectangles.



Not drawn
accurately

- 1 (a) Work out the perimeter of the shape

[2 marks]

$$10 + 3 + 4 + 8 + 6 + 11 = 42$$

Answer 42 cm

- 1 (b) Work out the area of the shape

[3 marks]

$$A : 3 \times 4 = 12 \text{ cm}^2$$

$$B : 11 \times 6 = 66 \text{ cm}^2$$

$$12 + 66 = 78$$

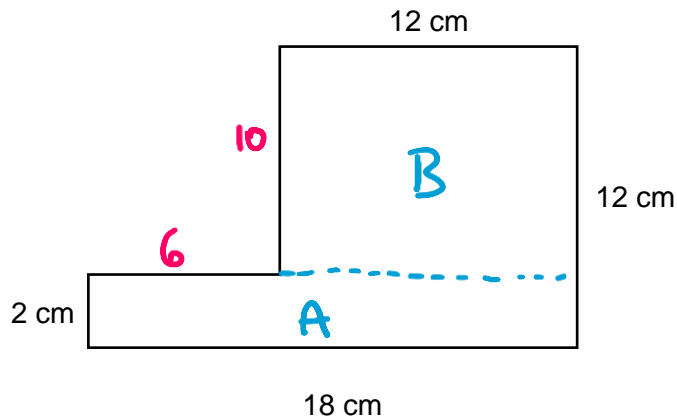
Answer 78 cm²





2

Here is a shape made from rectangles.



2 (a)

Work out the perimeter of the shape

[2 marks]

$$2 + 18 + 12 + 12 + 10 + 6$$

Answer 60 cm

2 (b)

Work out the area of the shape

[3 marks]

$$A: 2 \times 18 = 36 \text{ cm}^2$$

$$B: 10 \times 12 = 120 \text{ cm}^2$$

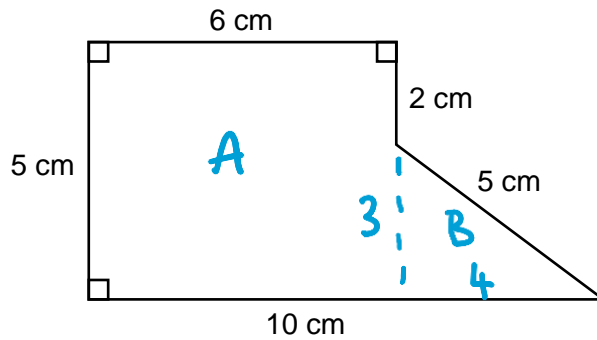
$$120 + 36$$

Answer 156 cm²



3

Here is a pentagon.



Not drawn accurately

3 (a)

Work out the perimeter of the pentagon.

[2 marks]

$$5 + 6 + 2 + 5 + 10 = 28$$

Answer 28 cm

3 (b)

Work out the area of the pentagon.

[3 marks]

$$A: 6 \times 5 = 30 \text{ cm}^2$$

$$B: \frac{1}{2} \times 4 \times 3 = 6 \text{ cm}^2$$

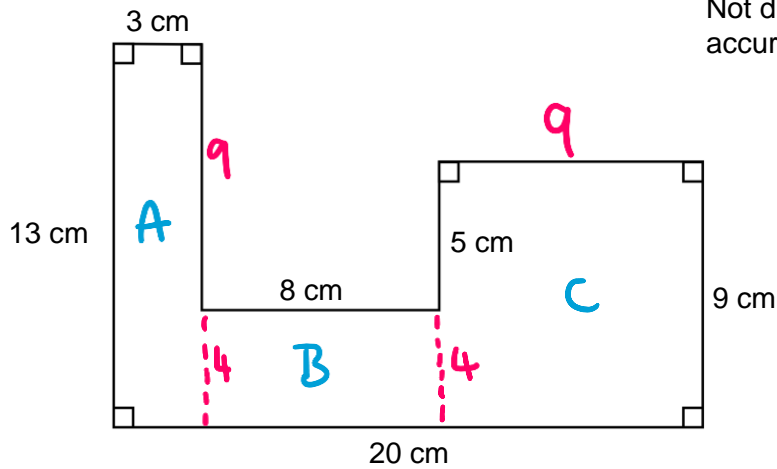
$$30 + 6 = 36$$

Answer 36 cm²



4

Here is a shape made from rectangles.



4 (a)

Work out the perimeter of the shape.

[3 marks]

$$13 + 3 + 9 + 8 + 5 + 9 + 9 + 20$$

Answer 76 cm

4 (b)

Work out the area of the shape.

[4 marks]

$$A: 13 \times 3 = 39 \text{ cm}^2$$

$$B: 8 \times 4 = 32 \text{ cm}^2$$

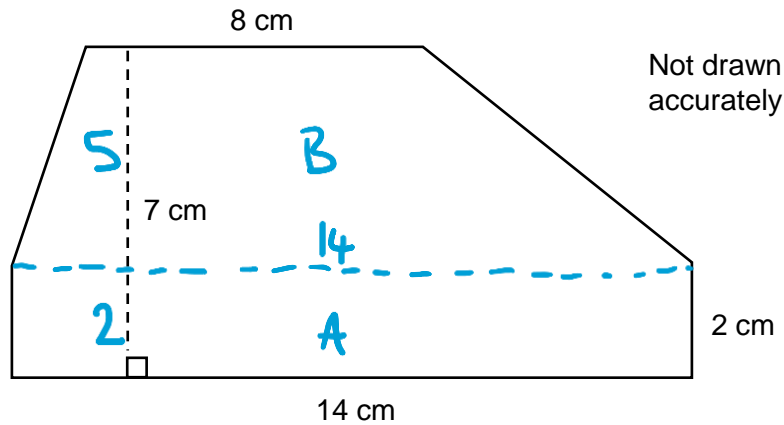
$$C: 9 \times 9 = 81 \text{ cm}^2$$

Answer 152 cm²



5

Here is a shape made from a trapezium and a rectangle.



Work out the area of the shape.

[4 marks]

$$A: 14 \times 2 = 28 \text{ cm}^2$$

$$B: \frac{1}{2}(14+8) \times 7 = 55 \text{ cm}^2$$

$$55 + 28 = 83$$

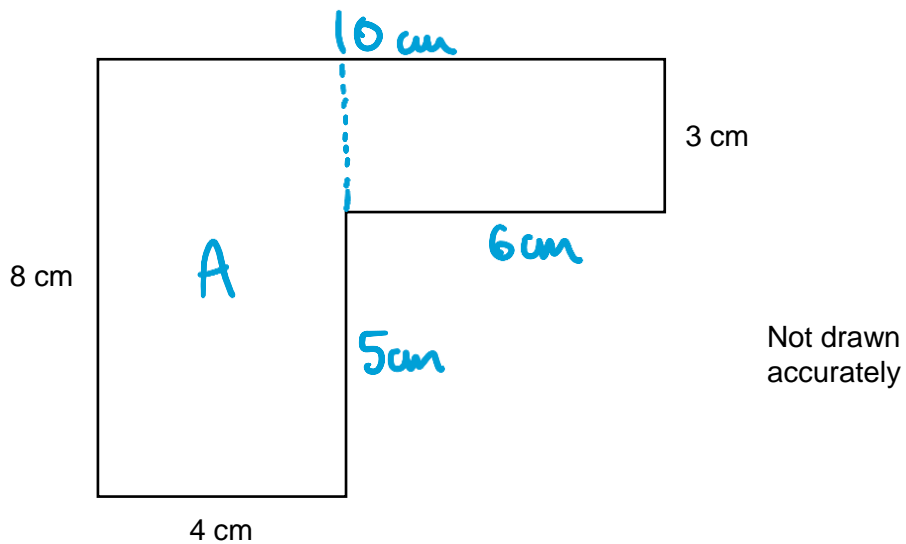
Answer 83 cm²





6

Here is a shape made from rectangles.

The area of the shape is 50 cm^2

Work out the perimeter of the shape.

[5 marks]

$$A: 8 \times 4 = 32 \text{ cm}^2$$

$$50 - 32 = 18 \text{ cm}^2$$

$$18 \div 3 = 6$$

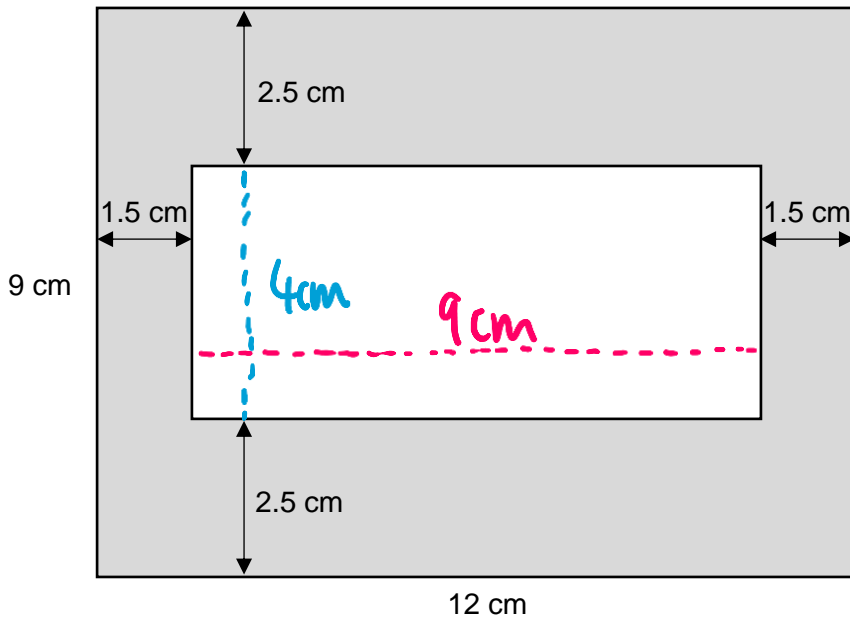
$$8 + 4 + 5 + 6 + 3 + 10 = 36$$

Answer 36 cm



7

A rectangular hole is cut from a larger rectangle.



Work out the area of shaded region.

[4 marks]

$$9 - 2.5 - 2.5 = 4$$

$$12 - 1.5 - 1.5 = 9$$

$$12 \times 9 = 108$$

$$9 \times 4 = 36$$

$$108 - 36 = 72$$

Answer

72

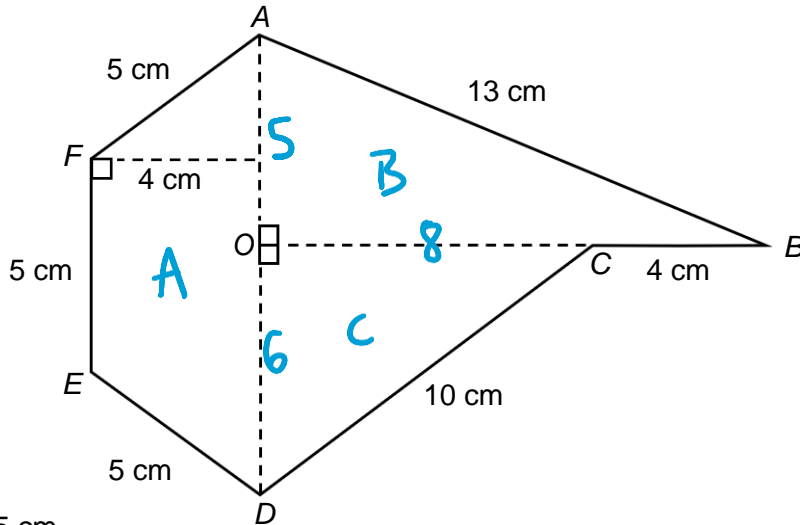
cm²

Turn over ►





- 8 $ABCDEF$ is a hexagon made from two right angled triangles and a trapezium.



$AO = 5 \text{ cm}$
 $AD = 11 \text{ cm}$
 $OC = 8 \text{ cm}$

- 8 (a) Work out the perimeter of the hexagon. [2 marks]

$$5 + 5 + 5 + 13 + 4 + 10$$

Answer 42 cm

- 8 (b) Work out the area of the hexagon. [4 marks]

$$A: \frac{1}{2}(5+11) \times 4 = 32 \text{ cm}^2$$

$$B: \frac{1}{2} \times 5 \times 12 = 30 \text{ cm}^2$$

$$C: \frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$$

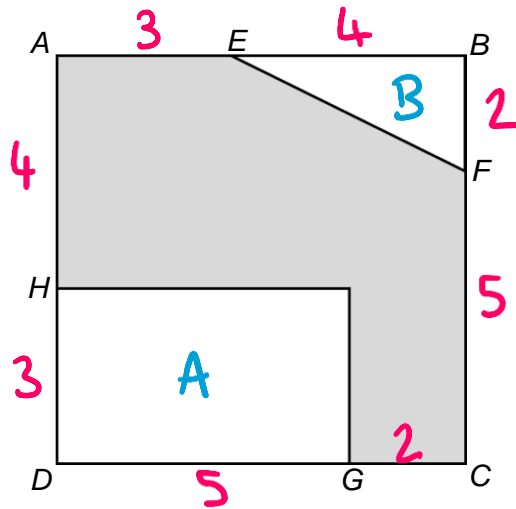
$$32 + 30 + 24$$

Answer 86 cm²





9

 $ABCD$ is a square.

$GC = 2\text{ cm}$

$AE = 3\text{ cm}$

$EB = AH = 4\text{ cm}$

$FC = 5\text{ cm}$

Work out the area of shaded region.

[5 marks]

$$7 \times 7 = 49$$

$$3 \times 5 = 15$$

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

$$49 - 15 - 4 = 30$$

Answer 30 cm²