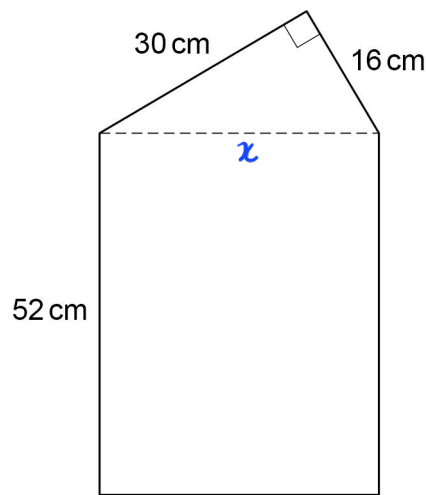


- 1 A shape is made by joining a right-angled triangle to a rectangle.



Not drawn
accurately

Work out the area of the shape.

[5 marks]

$$x^2 = 30^2 + 16^2$$

$$= 900 + 256 \quad (1)$$

$$= 1156$$

$$x = \sqrt{1156} = 34 \quad (1)$$

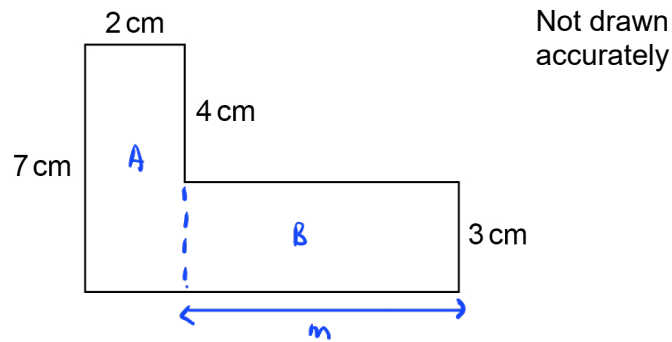
$$\text{Area of triangle} : \frac{1}{2} \times 30 \times 16 = 240 \quad (1)$$

$$\text{Area of rectangle} : 52 \times 34 = 1768 \quad (1)$$

$$\text{Total} : 240 + 1768 = 2008 \quad (1)$$

Answer 2008 cm²

2 The L-shape is made from rectangles.



The area is 44 cm^2

Work out the perimeter.

[3 marks]

$$\text{Area A} = 2 \times 7 = 14 \quad (1)$$

$$\text{Perimeter} = 2 + 4 + 10 + 3 + 10 + 2 + 7$$

$$\text{Area B} = 3 \times m = 3m$$

$$= 38 \quad (1)$$

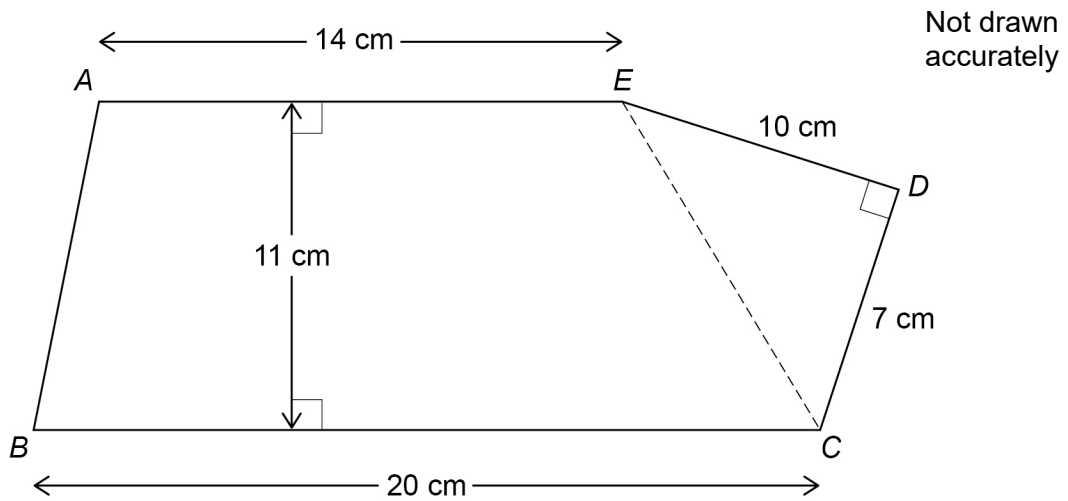
$$3m + 14 = 44$$

$$3m = 30$$

$$m = 10 \quad (1)$$

Answer 38 cm

3

 $ABCDE$ is a pentagon.

Work out the area of the pentagon.

[3 marks]

$$\text{Area of trapezium : } \frac{1}{2} \times (14 + 20) \times 11 = 187 \text{ cm}^2 \quad (1)$$

$$\text{Area of triangle : } \frac{1}{2} \times 10 \times 7 = 35 \text{ cm}^2 \quad (1)$$

$$\text{Total area : } 187 + 35 = 222 \text{ cm}^2 \quad (1)$$

Answer 222 cm²