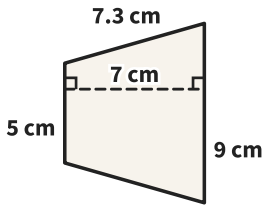
Area of 2D Shapes

ANSWERS

1

Work out the area of this trapezium.



Not drawn accurately

the parallel sides are 5 cm and 9 cm

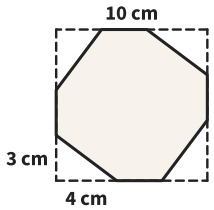
½ × (5 + 9) × 7

49 cm²

Answer

2

Four identical right-angled triangles are cut from the corners of a square.
Work out the area of the shape that is left.



Not drawn accurately

one triangle ½ × 4 × 3 = 6

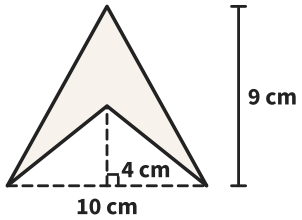
10 × 10 − 4 × 6

76 cm²

Answer

3

Work out the area of this arrowhead.



Not drawn accurately

big triangle ½ × 10 × 9 = 45

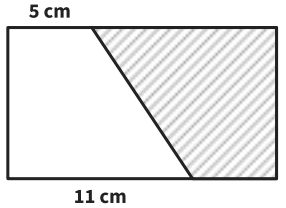
small triangle ½ × 10 × 4 = 20

25 cm²

Answer

4

A 16 cm by 9 cm rectangle is cut into two trapezia.
Work out the area of the shaded trapezium.



Not drawn accurately

parallel sides 16 − 5 = 11 and 16 − 11 = 5

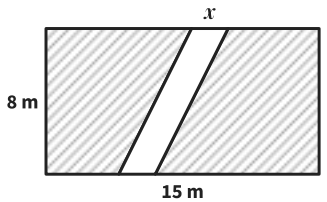
½ × (11 + 5) × 9

72 cm²

Answer

5

A path with parallel edges crosses a rectangular lawn. The shaded grass has an area of 104 m².
Work out x.



Not drawn accurately

path = 15 × 8 − 104 = 16 m²

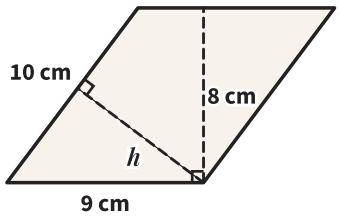
x × 8 = 16 (a parallelogram)

x = 2 m

Answer

6

Work out the length h.



Not drawn accurately

area = 9 × 8 = 72 cm²

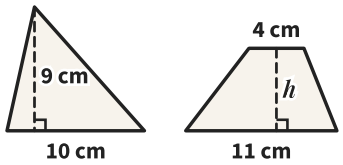
10 × h = 72

h = 7.2 cm

Answer

7

The triangle and the trapezium have the same area.
Work out the height h of the trapezium.



Not drawn accurately

triangle ½ × 10 × 9 = 45 cm²

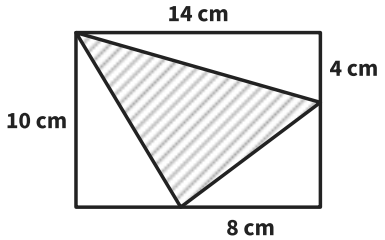
½ × (4 + 11) × h = 45

h = 6 cm

Answer

8

The outside shape is a rectangle.
Work out the area of the shaded triangle.



Not drawn accurately

rectangle 14 × 10 = 140 cm²

triangles 28 + 24 + 30 = 82

58 cm²

Answer