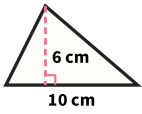


Area of 2D Shapes

1

Work out the area of this triangle.



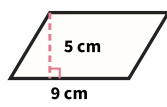
$$A = \frac{1}{2} \times \text{base} \times \text{height}$$

$$A = \frac{1}{2} \times 10 \times 6 = 30 \text{ cm}^2$$

Answer 30 cm²

2

Work out the area of this parallelogram.



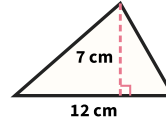
$$A = \text{base} \times \text{height}$$

$$A = 9 \times 5 = 45 \text{ cm}^2$$

Answer 45 cm²

3

Work out the area of this triangle.



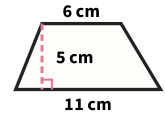
$$A = \frac{1}{2} \times \text{base} \times \text{height}$$

$$A = \frac{1}{2} \times 12 \times 7 = 42 \text{ cm}^2$$

Answer 42 cm²

4

Work out the area of this trapezium.



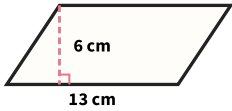
$$A = \frac{1}{2} \times (a + b) \times \text{height}$$

$$A = \frac{1}{2} \times (6 + 11) \times 5 = 42.5 \text{ cm}^2$$

Answer 42.5 cm²

5

Work out the area of this parallelogram.

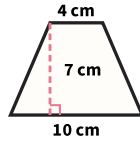


$$A = 13 \times 6 = 78 \text{ cm}^2$$

Answer 78 cm²

6

Work out the area of this trapezium.

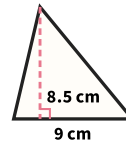


$$A = \frac{1}{2} \times (4 + 10) \times 7 = 49 \text{ cm}^2$$

Answer 49 cm²

7

Work out the area of this triangle.

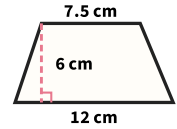


$$A = \frac{1}{2} \times 9 \times 8.5 = 38.25 \text{ cm}^2$$

Answer 38.25 cm²

8

Work out the area of this trapezium.



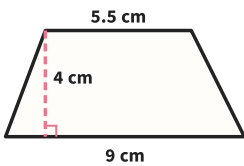
$$A = \frac{1}{2} \times (7.5 + 12) \times 6 = 58.5 \text{ cm}^2$$

Answer 58.5 cm²

Area of 2D Shapes further practice

9

Work out the area of this trapezium.

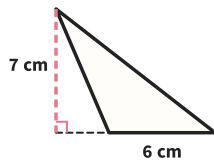


$$A = \frac{1}{2} \times (5.5 + 9) \times 4 = 29 \text{ cm}^2$$

Answer 29 cm²

10

Work out the area of this triangle.

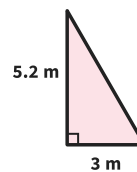


$$A = \frac{1}{2} \times 6 \times 7 = 21 \text{ cm}^2$$

Answer 21 cm²

11

A triangular sail is 3 m along the bottom and 5.2 m high. Work out its area.

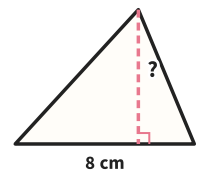


$$A = \frac{1}{2} \times 3 \times 5.2$$

Answer 7.8 m²

12

This triangle has an area of 24 cm². Work out its perpendicular height.

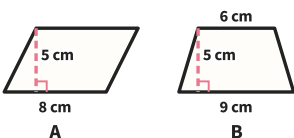


$$\frac{1}{2} \times 8 \times \text{height} = 24$$

Answer 6 cm

13

Which shape has the bigger area, A or B? By how much?

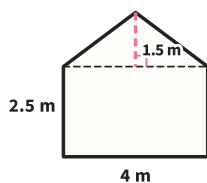


$$A = 40 \text{ cm}^2, B = 37.5 \text{ cm}^2$$

Answer A, by 2.5 cm²

14

This is the end wall of a garden shed. Work out its area.

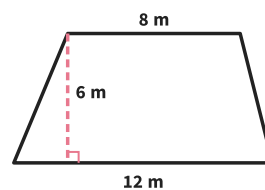


$$4 \times 2.5 + \frac{1}{2} \times 4 \times 1.5$$

Answer 13 m²

15

A lawn is a trapezium. Turf costs £4.50 per m². How much does it cost to turf the whole lawn?

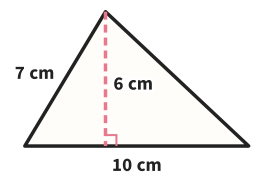


$$\text{area } 60 \text{ m}^2, \text{ then } \times 4.50$$

Answer £270

16

Ola says the area of this triangle is $\frac{1}{2} \times 10 \times 7 = 35 \text{ cm}^2$. Explain Ola's mistake and find the right area.



$$\text{use the perpendicular height, } 6 \text{ cm}$$

Answer 30 cm²