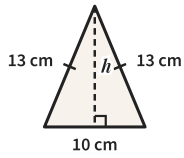


Area and Pythagoras



1

Find the height h , then the area of the triangle.



$$h^2 = 13^2 - 5^2 = 144$$

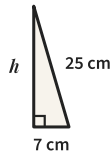
$$h = 12$$

$$\text{Area} = \text{ } = \text{ }$$

Answer _____

2

Find the missing side h , then the area of the triangle.



$$h^2 = 25^2 - 7^2 = 576$$

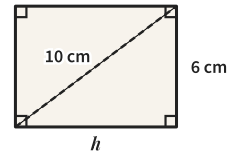
$$h = \text{ }$$

$$\text{Area} = \text{ } = \text{ }$$

Answer _____

3

A rectangle is 6 cm wide and its diagonal is 10 cm. Find its length h , then its area.



$$h^2 = \text{ }^2 - \text{ }^2 = \text{ }$$

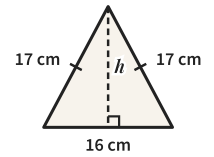
$$h = \text{ }$$

$$\text{Area} = \text{ } = \text{ }$$

Answer _____

4

Find the height h , then the area of the triangle.

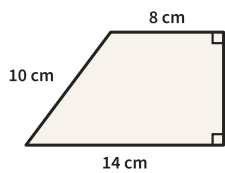


$$\text{Area} = \text{ } = \text{ }$$

Answer _____

5

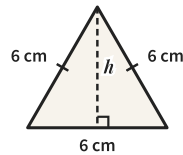
Find the area of this trapezium.



Answer _____

6

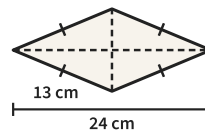
Find the area of this equilateral triangle to 1 decimal place.



Answer _____

7

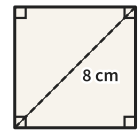
A rhombus has sides of 13 cm. Its long diagonal is 24 cm. Find the area of the rhombus.



Answer _____

8

A square has a diagonal of 8 cm. Find its area.



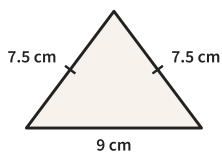
Answer _____

Area and Pythagoras further practice



9

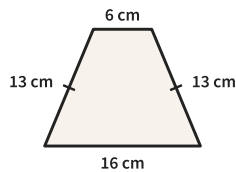
Find the area of this isosceles triangle.



Answer _____

10

Find the area of this isosceles trapezium.



Answer _____

11

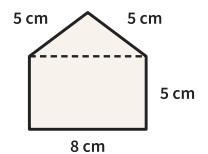
A right angled triangle has an area of 30 cm^2 . One of the shorter sides is 5 cm. Find its perimeter.



Answer _____

12

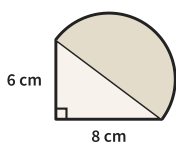
This shape is a rectangle with an isosceles triangle on top. Find its area.



Answer _____

13

A semicircle is drawn on the longest side of this right angled triangle. Find the total area to 1 decimal place.



Answer _____

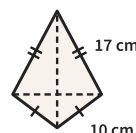
14

A garden plot is an isosceles triangle with sides 25 m, 25 m and 14 m. Turf costs $\text{£}4.50$ per m^2 . How much will it cost to turf the plot?

Answer _____

15

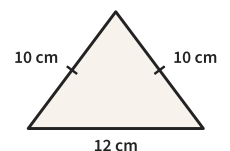
A kite has two sides of 10 cm and two of 17 cm. Its short diagonal is 16 cm. Find the area of the kite.



Answer _____

16

Jo says the area of an isosceles triangle with sides 10 cm, 10 cm and 12 cm is $\frac{1}{2} \times 12 \times 10 = 60 \text{ cm}^2$. Explain her mistake and find the area.



Answer _____