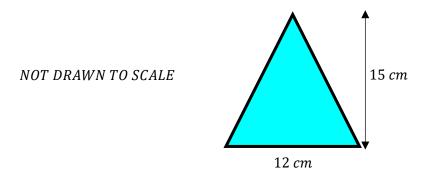


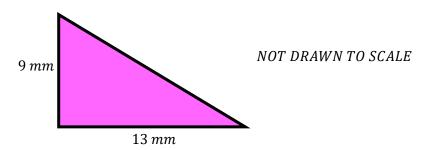
1. Work out the area of the triangle.



$$\frac{15 \times 12}{2} = 90 \ cm^2$$

(2 marks)

2. Work out the area of the triangle.

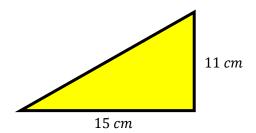


$$\frac{13 \times 9}{2} = 58.5 \ cm^2$$

(2 marks)



3. Calculate the volume of the triangle.

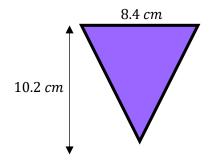


NOT DRAWN TO SCALE

$$\frac{15 \times 11}{2} = 82.5 \ cm^2$$

(3 marks)

4. Below is a triangle.



NOT DRAWN TO SCALE

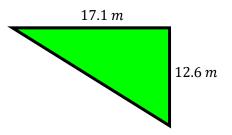
Calculate the area.

$$\frac{10.2 \times 8.4}{2} = 42.84 \ cm^2$$

(2 marks)



5. Work out the area of the triangle.



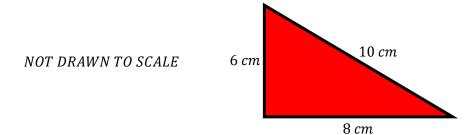
NOT DRAWN TO SCALE

State the units.

$$\frac{17.1 \times 12.6}{2} = 107.73 \ cm^2$$

(3 marks)

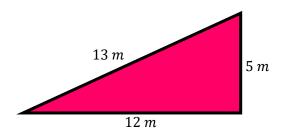
6. Work out the area of the triangle. State the units.



$$\frac{6\times8}{2}=24\ cm^2$$



7. Below is a triangle. Find the area of the triangle.

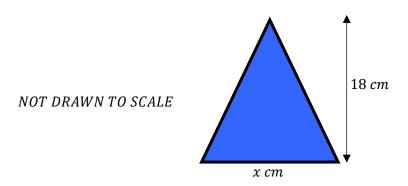


NOT DRAWN TO SCALE

$$\frac{5\times12}{2}=30\ cm^2$$

(3 marks)

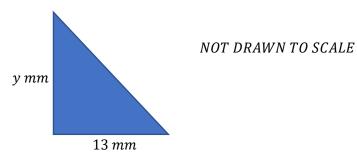
8. The triangle has an area of $108 cm^2$. Find the value of x.



$$\frac{x \times 18}{2} = 108 cm^2$$
$$x = 12 cm$$



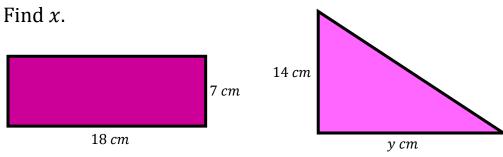
9. The area of the triangle is $110.5 mm^2$. Find y.



$$\frac{13 \times y}{2} = 110.5 \ cm^2$$
$$y = 17 \ cm$$

(3 marks)

10. The area of the rectangle is the same as the area of the triangle.

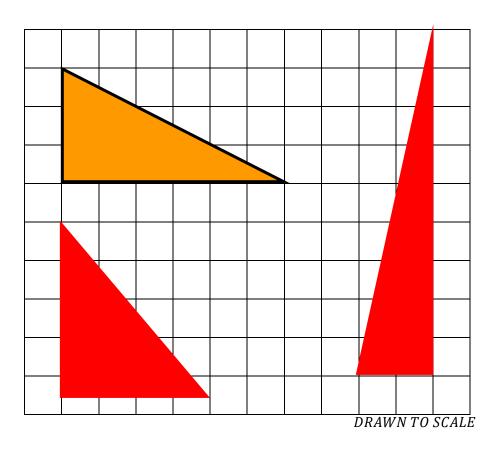


NOT DRAWN TO SCALE

Rectangle:
$$18 \times 7 = 126 \text{ cm}^2$$
$$\frac{14 \times y}{2} = 126 \text{ cm}^2$$
$$y = 18 \text{ cm}$$



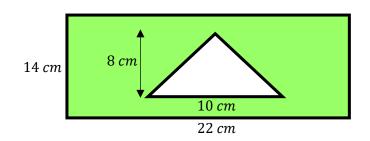
11. Below is a triangle.
Draw 2 other triangles with the same area.



$$\frac{6\times3}{2}=9\ cm^2$$



12. Find the shaded area.



NOT DRAWN TO SCALE

$$Triangle: \frac{10 \times 8}{2} = 40 \ cm^2$$

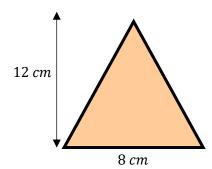
Rectangle: $14 \times 22 = 308 \text{ cm}^2$ Shaded area: $308 - 40 = 268 \text{ cm}^2$

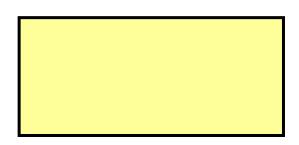
(3 marks)

13. Below is a triangle and a rectangle.

The rectangle is three times the area of the triangle.

Find a possible length and height of the rectangle.





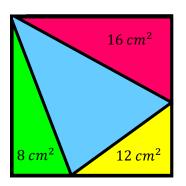
NOT DRAWN TO SCALE

$$\frac{8\times12}{2}=48~cm^2$$

 $48 \times 3 = 144 \text{ cm}^2$ 24cm, 6cm 18cm, 8cm36cm, 4cm



14. Below is a square. Find the missing area.



NOT DRAWN TO SCALE

 $12cm^2: 1 \times 24, 2 \times 12, 3 \times 8, \mathbf{4} \times \mathbf{6}$ $8cm^2: 1 \times 16, \mathbf{2} \times \mathbf{8}$

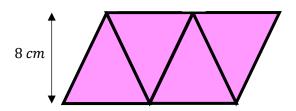
 $32cm^2: 1 \times 32, 2 \times 16, \mathbf{4} \times \mathbf{8}$

Area of square: $8 \times 8 = 64 \text{ cm}^2$

Blue area: $64 - 8 - 16 - 12 = 28 \text{ cm}^2$

(4 marks)

15. Four isosceles triangles tessellate to create this pattern.



NOT DRAWN TO SCALE

The total area of the shape is $144cm^2$. Find the length of the base of one of the triangles.

1 triangle:
$$144 \div 3 = 48 \text{ cm}^2$$
$$\frac{8 \times base}{2} = 48 \text{ cm}^2$$

Base = 12 cm