

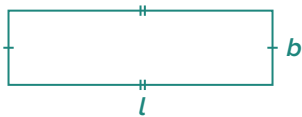


Learning Objective: To apply knowledge to calculate the areas of rectangles and triangles.

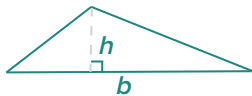
Calculating the areas of rectangles and triangles

Example - Recall the area formulas for a rectangle and a triangle:

A (Rectangle) = length x breadth (width)
= lb



A (Triangle) = $\frac{1}{2} \times \text{base} \times (\text{perpendicular}) \text{ height}$
= $\frac{1}{2}bh$

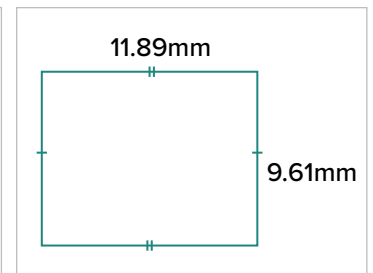
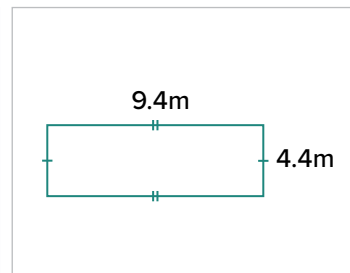
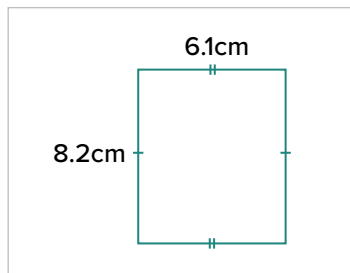
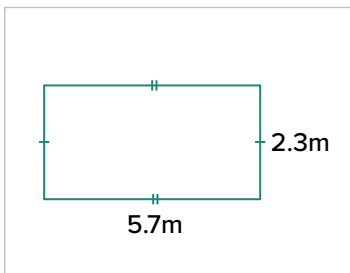


Areas of **composite shapes** (shapes made up of other, often simpler, shapes) can be found by adding or subtracting the area of more basic shapes.

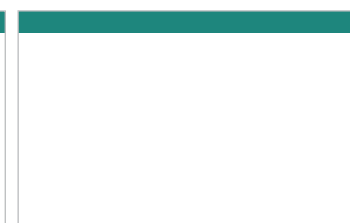
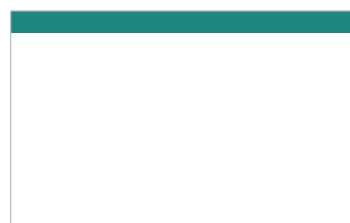
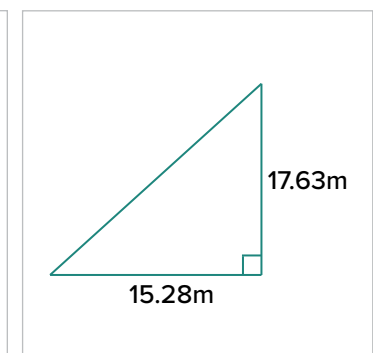
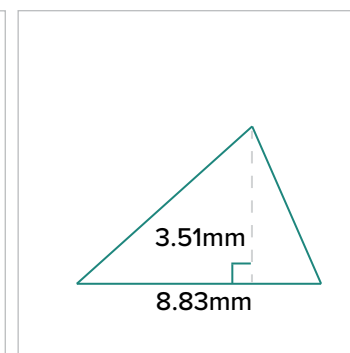
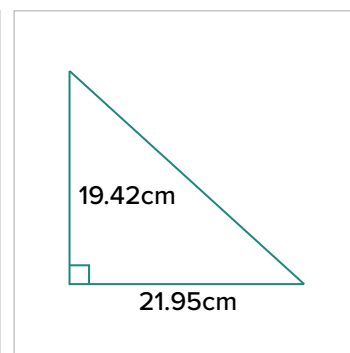
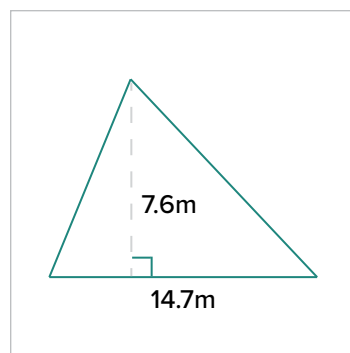
Example - The area of the following composite shape can be found by adding the area of the **rectangle** (1) and the area of the **triangle** (2).



Find the area of the following rectangles. Round to 2 decimal places.



Find the area of the triangles. Round to 2 decimal places.



 **Learning Objective:** To apply knowledge to calculate the areas of rectangles and triangles.

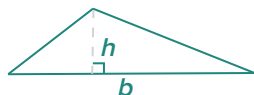
Calculating the areas of rectangles and triangles

Example - Recall the area formulas for a rectangle and a triangle:

A (Rectangle) = length x breadth (width)
= lb

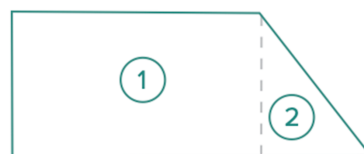


A (Triangle) = $1/2 \times \text{base} \times (\text{perpendicular}) \text{ height}$
= $1/2 bh$

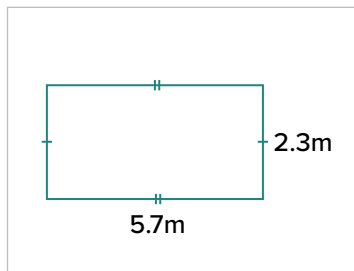


Areas of **composite shapes** (shapes made up of other, often simpler, shapes) can be found by adding or subtracting the area of more basic shapes.

Example - The area of the following composite shape can be found by adding the area of the **rectangle** (1) and the area of the **triangle** (2).

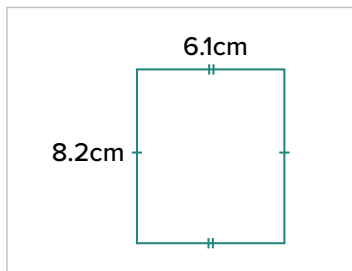


Find the area of the following rectangles. Round to 2 decimal places.



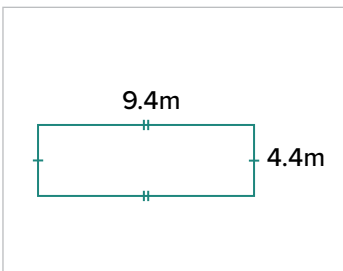
$$A = 5.7 \times 2.3$$

$$A = 13.11\text{m}^2$$



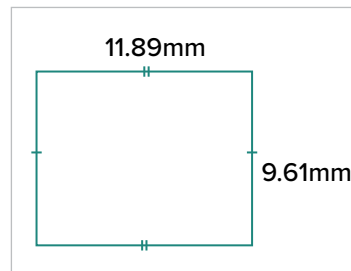
$$A = 6.1 \times 8.2$$

$$A = 50.02\text{cm}^2$$



$$A = 9.4 \times 4.4$$

$$A = 41.36\text{m}^2$$

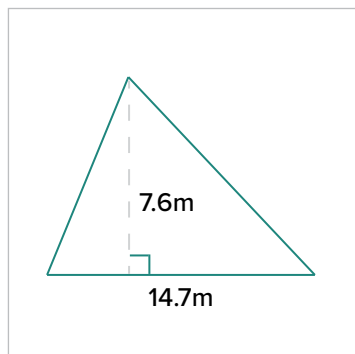


$$A = 11.89 \times 9.61$$

$$A = 114.2629$$

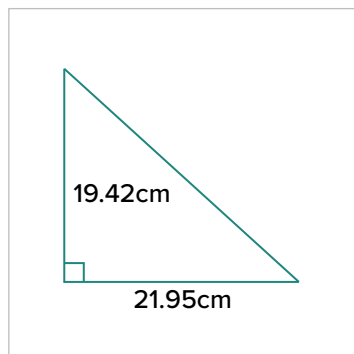
$$A = 114.26\text{mm}^2$$

Find the area of the triangles. Round to 2 decimal places.



$$A = 1/2 \times 14.7 \times 7.6$$

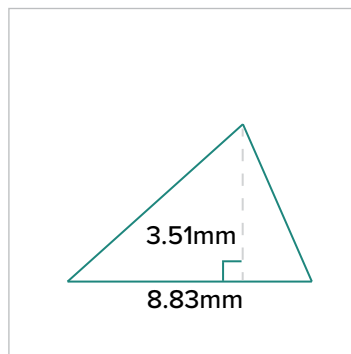
$$A = 55.86\text{m}^2$$



$$A = 1/2 \times 21.95 \times 19.42$$

$$A = 213.1345$$

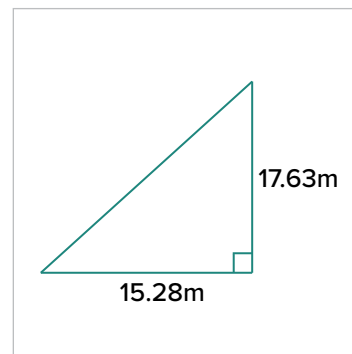
$$A = 213.14\text{cm}^2$$



$$A = 1/2 \times 8.83 \times 3.51$$

$$A = 15.49665$$

$$A = 15.50\text{mm}^2$$



$$A = 1/2 \times 15.28 \times 17.63$$

$$A = 134.6932$$

$$A = 134.69\text{m}^2$$