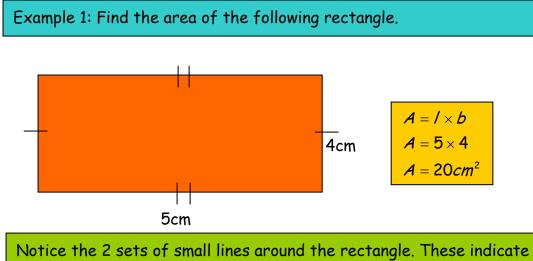
Areas and Volume.

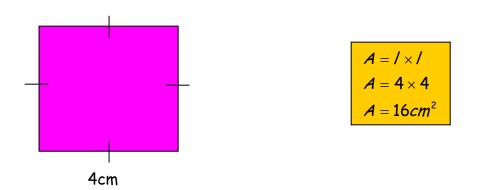
You should be able to find the area of the following shapes:

- Rectangles
- Squares
- Any Triangle.
- Circle.
- Kite
- Rhombus
- Parallelogram
- Composite Shapes.

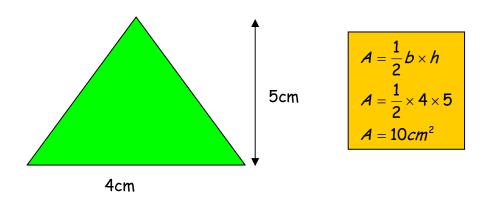


that the side with the same amount of lines is equal in size to that side.

Example 2: Find the area of the following square.

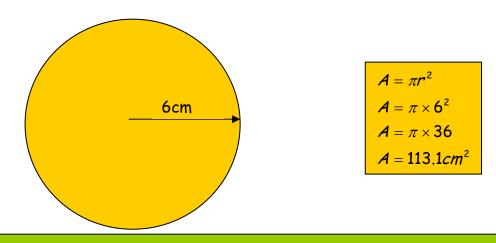


Notice how we are only given the value of one side. We only need the value of one side in a square since all the sides are the same size.



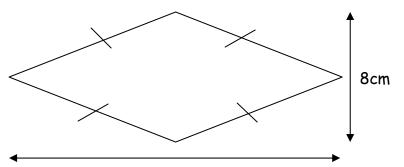
Remember that the area of a triangle will always be half of the area of its surrounding rectangle. It is usually easier to half whichever number is the biggest, to make for an easier calculation.





Remember the formula to work out the area of a circle. Don't confuse it with the circumference formula $C = \Pi D$. If you are given a situation where you are given the diameter and asked to work out the area, don't forget just half it to find the radius.

Example 4: Find the area of the following rhombus.

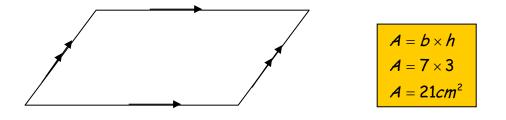


12cm

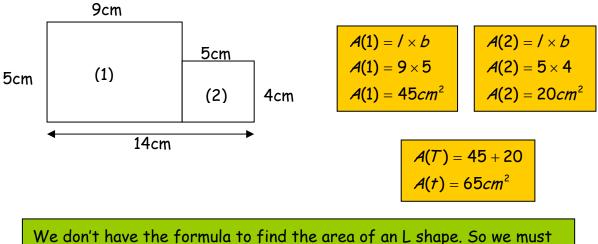
$$A = \frac{1}{2}d'_{1}d'_{2}$$
$$A = \frac{1}{2} \times 12 \times 8$$
$$A = 48cm^{2}$$

Note that when finding the area of both a rhombus and a kite, you use the same formula as shown here, and you **must** measure the diagonals of the shape, i.e. the distance from one corner to the opposite corner. If you are given sides, ignore them when calculating area.

Example 5: Find the area of the following parallelogram.



Remember that the area of a parallelogram is exactly the same as that of a rectangle. You can detach the left corner and attach it the right corner. The only thing that changes is that in a parallelogram we call it base and height instead of length and breadth.



We don't have the formula to find the area of an L shape. So we must split it up into two rectangles that we know how to find the area of and add them together to find the area of the composite shape.