## Maths - Year 6

Measurement 2: Areas of 2D shapes


## Mathematical Methods

- Using tangrams to explore conservation of area and dissection of shapes e.g. exploring how many tangram pieces you can make using two or more of the pieces.


- Finding the area of a right-angled triangle.

$3 \times 4=12 \mathrm{~cm}^{2}$, so the area of the triangle
is $\frac{1}{2} \times 12=6 \mathrm{~cm}^{2}$.

Finding the area of any triangle.


$$
\begin{aligned}
& =1 / 2 \times \text { base } \times \text { height } \\
& =1 / 2 \times b \times h
\end{aligned}
$$

- Finding the area of a parallelogram.


Solving problems by finding the area of composite shapes e.g. An architect is designing communal gardens and parks for a new town. The sites have a variety of shapes and sizes, but the design brief specifies that, in each one, lawns should make up at least $65 \%$ of the total area. Does this example meet the brief?


- Constructing and interpreting pie charts.


## Can you..?

- Calculate the area of this triangle.

- Explain how to work out the area of this shape.


