## Maths

## Understanding and Using Area

The area is the space inside a shape. It is measured in square metres ( $\mathrm{m}^{2}$ ) or square millimetres $\left(\mathrm{mm}^{2}\right)$.

Work out the areas of the following shapes. The first one has been done for you.

## Example 1

Find the area of the rectangle below in $\mathrm{m}^{2}$.
The area of a rectangle can be found by multiplying its length by its width.

First change its length and width into metres, and then multiply them together.


$$
\begin{aligned}
\text { Area } & =\text { Length } \times \text { Width } \\
& =4.5 \mathrm{~m} \times 2.3 \mathrm{~m} \\
& =10.35 \mathrm{~m}^{2}
\end{aligned}
$$

## Practice Question 1



6500 mm

## Example 2

The area of a circle can be found by multiplying $\Pi$ (3.142) by the radius squared.

The radius is half the diameter.

$\Pi=3.142$
Radius $=3500 \div 2$
$=1750 \mathrm{~mm}$
Area $=\Pi r^{2}$
$=\Pi \mathrm{X} 1.750^{2}$
$=\Pi \times 3.0625 \mathrm{~m}^{2}$
$=9.621 \mathrm{~m}^{2}$

## Practice Question 2



