|  | Key vocabulary |
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| Perimeter | The distance around a two-dimensional shape. |
| Area | The size of a surface. |
| Rectilinear | A shape of whose sides meet at right angles |
| Compound Shape | A shape made up of 2 or more shapes |$|$| Irregular shape | Has at least one side different to the other sides, or <br> angle different to the other angles. |
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| Dimensions | How many values we need to locate points on a <br> shape. |
| Length | Distance. How far from end to end. Or from one <br> point to another. |
| Width | The distance from side to side. |
| Volume | The amount of space a 3D shape takes up. |


| Volume |  |
| :---: | :---: |
| A cubic cm block takes up 1 cubic cm . This is written as $1 \mathrm{~cm}^{3}$. <br> You can work out the volume of a shape by multiplying Length $x$ Width $x$ Height <br> If the shape is made of cubic cm blocks, you can count the cubes to find the shape's volume. | The length is: 5 cm <br> The width is: 3 cm <br> The height is: 4 cm <br> Volume $=5 \times 3 \times 4=60 \mathrm{~cm}^{3}$ |

Of rectangles
Of regular shapes
Of irregular shapes
Perimeter $=\mathbf{l}+\mathbf{w}+\mathbf{l}+\mathbf{w}$


Perimeter $=\ \times s$


Measure the length (l) and count the number of sides (s) on the shape.


Area of Rectilinear Shapes
The unit of $\quad$ Area of a rectangle $=l \times h \quad$ Finding missing sides using the measure for area is always squared.
 area by dividing the area by the dimension that you know.


Area of Compound Shapes
Divide into rectangles and label known dimensions.
Area of Triangle
base $\times$ height $\div 2$

$10 \times 4 \div 2=20 \mathrm{~cm}^{2}$

Area of Parallelogram
Area $=7 \mathrm{~cm} \times 4 \mathrm{~cm}+5 \mathrm{~cm} \times 5 \mathrm{~cm}$
$=28 \mathrm{~cm}^{2}+25 \mathrm{~cm}^{2}$
$=53 \mathrm{~cm}^{2}$
base $\times$ perpendicular height


