## GCSE Maths Formulae


$\frac{1}{2} \times \boldsymbol{b}$ ase $\times \boldsymbol{h}$ eight $=\frac{1}{2} \boldsymbol{b} \boldsymbol{h}$

$\pi \times$ radius $\times$ radius

$$
=\pi r^{2}
$$


Parallelogram


$$
\begin{gathered}
\boldsymbol{b} \text { ase } \times \boldsymbol{h} \text { eight } \\
=\boldsymbol{b} \boldsymbol{h}
\end{gathered}
$$

Area of a Trapezium

length $\times$ width $\times$ height

$$
=l w h
$$


area of cross section $\times$ length
area of cross section


## Trigonometry Formulae



## Compound Interest

Principle amount interest rate number of times the interest is compounded

Value of Investment

$$
=\mathbf{P}\left(1+\frac{\mathbf{r}}{100}\right)^{\mathbf{n}}
$$

Values of Trigonometric Functions

|  | $0^{\circ}$ | $30^{\circ}$ | $45^{\circ}$ | $60^{\circ}$ | $90^{\circ}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\sin \theta$ | 0 | $\frac{1}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{\sqrt{3}}{2}$ | 1 |
| $\cos \theta$ | 1 | $\frac{\sqrt{3}}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{1}{2}$ | 0 |
| $\tan \theta$ | 0 | $\frac{1}{\sqrt{3}}$ | 1 | $\sqrt{3}$ | not <br> defined |

