










## 10 things

## Maths Knowledge Organiser GCSE Foundation Part 11



We make equivalent (identical) fractions by multiplying (or dividing) the numerator and denominator by the same number

## 2 <br> Volume of prism: <br> 



3
A vector describes movement
e.g. $\binom{5}{2} \quad 5$ right \& 2 up
$\binom{-5}{-2} \quad 5$ left \& 2 down
with $m=$ gradient
$c=y$-axis intercept
5 A\% of B: $A \div 100 \times B$
egg. $12 \%$ of $£ 300$ : $12 \div 100 \times 300$
$\sin , \cos \& \tan$
SOH-CAH-TOA
It's easy to multiply fractions:
e.g. $\frac{2}{5} \times \frac{3}{7}=\frac{6}{35} \leftarrow 2 \times 3$
$8<$ means 'less than'
On a number line:

The square root of a number is what you square to make it
egg. $\sqrt{16}=4$ because $4 \times 4=16$

$\leq$ means 'less than or equal to' On a number line:


$$
\text { e.g. } \begin{aligned}
5 \times-3 & =-15 \\
-5 \times-3 & =15 \\
-20 \div 2 & =-10 \\
-20 \div-2 & =10
\end{aligned}
$$

$1 \longdiv { \times \text { and } \div \text { with negatives: } }$

$$
\begin{aligned}
& \text { One }-\Rightarrow \text { answer is }- \\
& \text { Both }-\Rightarrow \text { answer is }+
\end{aligned}
$$

2 equidistant means 'equal distances' (from two points)

3

$$
\sin 30=\cos 60=\frac{1}{2}
$$

4 A quadratic $\left(x^{2}\right)$ graph makes a U-shape called a parabola


5
bisect means 'cut in half'

$$
\sin 45=\cos 45=\frac{\sqrt{2}}{2}
$$

co-interior angles add up to $180^{\circ}$




