## Coordinate Geometry

The equation of a given line is given by $2 x+3 y=12$

1. The gradient of the line is =
2. The intercept on the $x$-axis is =
3. The intercept on the $y$-axis is $=$
4. Find the area of the triangle $O A B$, where $O$ is the origin and $A$ and $B$ are the points where the line cuts the $x$-axis and the $y$-axis respectively.

Given that the equations of two lines $L_{1}$ and $L_{2}$ are :
$L_{1}: 2 x+y=8$ and
$\mathrm{L}_{2}: 6 \mathrm{y}-\mathrm{mx}=3$
5. State the gradient of the line
6. If $L_{1}| | L_{2}$ find $m$
7. If $L_{1} \perp L_{2}$ find $m$

The equation of a given line is given by $2 x+3 y=12$

1. The gradient of the line is $=-\frac{3}{2}$
2. The intercept on the $x$-axis is $=6$
3. The intercept on the $y$-axis is $=4$
4. Find the area of the triangle $O A B$, where $O$ is the origin and $A$ and $B$ are the points where the line cuts the $x$-axis and the $y$ - $a x i s$ respectively. 12 sq. Units

Given that the equations of two lines $L_{1}$ and $L_{2}$ are :
$L_{1}: 2 x+y=8$ and
$L_{2}: 6 y-m x=3$
5. State the gradient of the line -2
6. If $L_{1}| | L_{2}$ find $m$

- 12

7. If $L_{1} \perp L_{2}$ find $m$
