

<b>BODMAS</b> = Brackets of	<b>Division</b>	<b>Multiplicatin</b>	<b>Addition</b>	<b>Subtraction</b>	
<b>PEMDAS</b> = Parentheses	Exponent	Multiplication	Division	Addition	Subtraction
<b>PEMDAS</b> = Please	Excuse	My	Dear	Aunt	Sally

\* = multiplication

**JUST FOLLOW THE NEHA-KOMAL METHOD OF FOLLOWING THE COLORS**

The equation for a straight line can be written as

$$y = (m)x + (b) \dots\dots\dots (1)$$

$$y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1b)$$

**EXAMPLE#1:**

Therefore,  $y = 5x + 3 \dots\dots\dots (2)$

can also be written as

$$y = (5)x + (3) \dots\dots\dots (2b)$$

The above equation has the format of equation (1)

$$\Rightarrow y = (m)x + (b) \dots\dots\dots (1)$$

$$\Rightarrow y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1b)$$

Comparing equation (2b) with (1) & (1b), we can see that

the **slope** is = **5**

and the **intercept** is = **3**

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JUST FOLLOW THE NEHA-KOMAL METHOD OF FOLLOWING THE COLORS

The equation for a straight line can be written as

$$y = (m)x + (b) \dots\dots\dots (1)$$

$$y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1b)$$

**EXAMPLE#2:**

Similarly, another equation

$$2y = 5x + 3 \dots\dots\dots (3)$$

can also be written as

$$\Rightarrow 2y = (5)x + (3)$$

We need to re-arrange the above equation, such that it is of the form (1).  
 i.e. We need to re-arrange the above equation, such that we end up with only "y" on the LHS (Left Hand Side). To do that, we will multiply both sides of the equation with " $\frac{1}{2}$ ".

Multiplying both sides of the equation with the same number does not change the equation.

$$\begin{aligned} \Rightarrow 2y \times \frac{1}{2} &= \{(5)x + (3)\} \times \frac{1}{2} \\ \Rightarrow 2y \times \frac{1}{2} &= \{(5)x + (3)\} \times \frac{1}{2} \\ \Rightarrow 2y \times \frac{1}{2} &= \left\{ \left(5 \times \frac{1}{2}\right)x + \left(3 \times \frac{1}{2}\right) \right\} \\ \Rightarrow 1y \times \frac{1}{1} &= \left\{ \left(5 \times \frac{1}{2}\right)x + \left(3 \times \frac{1}{2}\right) \right\} \\ \Rightarrow 1y \times \frac{1}{1} &= \left\{ \left(\frac{5 \times 1}{2}\right)x + \left(\frac{3 \times 1}{2}\right) \right\} \\ \Rightarrow y &= \left\{ \left(\frac{5}{2}\right)x + \left(\frac{3}{2}\right) \right\} \\ \Rightarrow y &= \left(\frac{5}{2}\right)x + \left(\frac{3}{2}\right) \\ \Rightarrow y &= \left(\frac{5}{2}\right)x + \left(\frac{3}{2}\right) \dots\dots\dots (3b) \end{aligned}$$

Now the above equation has the format of equation (1)

$$\Rightarrow y = (m)x + (b) \dots\dots\dots (1)$$

$$\Rightarrow y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1b)$$

Comparing equation (3b) with (1) & (1b), we see that

the **slope** is  $= \frac{5}{2}$   
 and the **intercept** is  $= \frac{3}{2}$

<b>BODMAS</b> = Brackets of	<b>Division</b>	<b>Multiplicatin</b>	<b>Addition</b>	<b>Subtraction</b>	
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JUST FOLLOW THE NEHA-KOMAL METHOD OF FOLLOWING THE COLORS

The equation for a straight line can be written as

$$y = (m)x + (b) \dots\dots\dots (1)$$

$$y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1)$$

**EXAMPLE#3:**

Similarly, another equation

$$2y = 5x - 3 \dots\dots\dots (4)$$

can also be written as

$$\Rightarrow 2y = (5)x - (3)$$

We need to re-arrange the above equation, such that it is of the form (1).  
 i.e. We need to re-arrange the above equation, such that we end up with only "y" on the LHS (Left Hand Side). To do that, we will multiply both sides of the equation with " $\frac{1}{2}$ ".  
 Multiplying both sides of the equation with the same number does not change the equation.

$$\Rightarrow 2y \times \frac{1}{2} = \{(5)x - (3)\} \times \frac{1}{2}$$

$$\Rightarrow 2y \times \frac{1}{2} = \{(5)x - (3)\} \times \frac{1}{2}$$

$$\Rightarrow 2y \times \frac{1}{2} = \left\{ \left(5 \times \frac{1}{2}\right)x - \left(3 \times \frac{1}{2}\right) \right\}$$

$$\Rightarrow 1y \times \frac{1}{1} = \left\{ \left(5 \times \frac{1}{2}\right)x - \left(3 \times \frac{1}{2}\right) \right\}$$

$$\Rightarrow 1y \times \frac{1}{1} = \left\{ \left(\frac{5 \times 1}{2}\right)x - \left(\frac{3 \times 1}{2}\right) \right\}$$

$$\Rightarrow y = \left\{ \left(\frac{5}{2}\right)x - \left(\frac{3}{2}\right) \right\}$$

$$\Rightarrow y = \left(\frac{5}{2}\right)x - \left(\frac{3}{2}\right)$$

$$\Rightarrow y = \left(\frac{5}{2}\right)x - \left(\frac{3}{2}\right)$$

$$\Rightarrow y = \left(\frac{5}{2}\right)x + \left(-\frac{3}{2}\right) \dots\dots\dots (4b)$$

Now the above equation has the format of equation (1)

$$\Rightarrow y = (m)x + (b) \dots\dots\dots (1)$$

$$\Rightarrow y = (\text{slope})x + (\text{intercept on } y - \text{axis}) \dots\dots\dots (1b)$$

Comparing equation (4b) with (1) & (1b), we see that

the **slope** is  $= \frac{5}{2}$   
 and the **intercept** is  $= -\frac{3}{2}$