Maths – Week 8 – Day 2 – Tuesday

**Order of operations**

Use the link below to go to bbc bitesize.

<https://www.bbc.co.uk/bitesize/articles/zb48d6f>

Information about order of operations.

When you work out a calculation with more than one operation (eg 8 + 2 × 3) follow the **BIDMAS**rule. Without this rule you could get different answers - so getting the order of operation correct is important.

### The BIDMAS rule

BIDMAS stands for B rackets, I ndices, D ivision and M ultiplication, A ddition and S ubtraction.

So the order you should do your calculations in is:

* Brackets
* Indices
* Division and Multiplication (start on the left and work them out in the order that you find them)
* Addition and Subtraction (when only addition and subtraction are left in the calculation, work them out in the order you find them - starting from the left of the calculation and working towards the right)

All of these terms are fairly obvious except for 'Indices' - which are just powers (eg 2³ or 4²). 'Indices' are also known as 'orders'. So you might also know this rule as BODMAS ( B rackets, O rders, D ivision and M ultiplication, A ddition and S ubtraction).

**Example 1**

What is 4 + 2 x 3 ?

If you calculate the 4 + 2 part first you get:

4 + 2 x 3 = 6 x 3 = 18

If you calculate the 2 x 3 part first you get:

4 + 2 x 3 = 4 + 6 = 10

These are two very different answers, but only one is correct.

In BIDMAS, multiplication comes before addition, so multiply 2 by 3 first:

4 + 2 x 3 = 4 + 6 = 10 , so this is the right answer.





