

# ORDER OF OPERATIONS

## — Number

### 1. What is Order of Operations?

- Maths problems must be solved in a specific ORDER.
- Otherwise you get different (wrong) answers!

### 2. The Rules

B - Brackets first	( )
O - Orders (powers/roots)	$x^2$
D - Division	/
M - Multiplication	x
A - Addition	+
S - Subtraction	-

Remember: BODMAS (or BIDMAS)  
Brackets, Orders, Multiply/Divide, Add/Subtract

### 3. Worked Examples

- $3 + 4 \times 2 = ?$ 
  - Multiply first:  $4 \times 2 = 8$
  - Then add:  $3 + 8 = 11$  (NOT 14!)
- $(3 + 4) \times 2 = ?$ 
  - Brackets first:  $3 + 4 = 7$
  - Then multiply:  $7 \times 2 = 14$

$3 + 4 \times 2 = 11$   
 $(3 + 4) \times 2 = 14$   
Brackets change the answer!