Y7 Maths Knowledge Organiser Topic 2: BIDMAS

What must I be able to do?	Key vocabulary	
 □ Carry out combined operations involving all four operations □ Understand and use brackets □ Use simple index notation 	Brackets	A pair of curved symbols to indicate that the operation must be $\frac{done}{first}$. e.g. 3 x (4 + 5) the brackets around 4 + 5 tell us to work that out before multiplying by 3, so 3 x 9 = 27.
➤ Sparx M521	Indices	Also known as powers. Describes the small number that tells you to square, cube etc. e.g. $3^2 = 3 \times 3 = 9$, the 2 is the power/index. <i>Indices</i> is the plural of index.

Order of operations (BIDMAS)

Brackets

- operations in brackets are done first

Indices

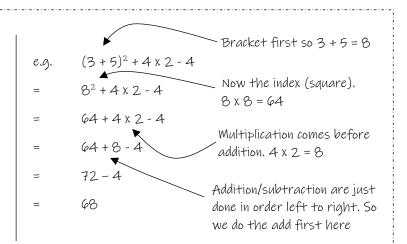
- then evaluate any powers/roots

Division and Multiplication

- carried out in order from left to right in the question

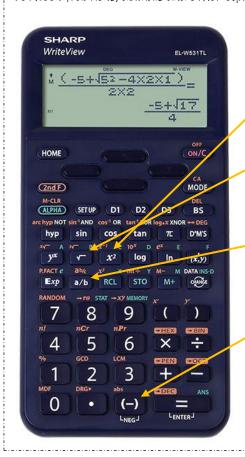
Addition and Subtraction

- carried out in order from left to right in the question



Using a calculator

A good modern calculator will automatically follow the rules of BIDMAS and there is no need to input a question in stages. You can even input questions so that they look exactly like they would on paper. These calculators will also change answers between fractions, deimals and other equivalent values. On the Sharp calculator use 'Change' and on a Casio press S D.



Square button

Square root button

If you need to put in a large fraction calculation (like the one on the left screen) press the fraction key first.

Input a negative number. Note that a negative number to a power **must** be in **brackets**

e.g. $(-5)^2$ not -5^2 .

