KEY

Order of Operations

- When solving a problem, you need to decide which operation to perform on integers
- Some integer problems involve more than 1 operation and require that you follow the **order of operations**.
- The order of operations is as follows:

① Brackets - $[3+4]$

② Exponents - $5^2 = 5 \times 5 = 25$

③ {Division, Multiplication} as they occur from left to right

④ {Addition, Subtraction} as they occur from left to right

Eg 1) $(3)+(15)\div(5)-(4)\times(2)$

$(3)+(3)-(4)\times(2)$

$(3)+(3)-(8)$

$(6)-(8)$

-2

Eg 2) $(48)\div(-6)+(3)^2-(4)$

$(48)\div(-6)+(9)-(4)$

$(-8)+(9)-(4)$

$(1)-(4)$

-3

eg 3) $6+(-5)(+5)\div[8(3)+1]$

$6+(-5)(+5)\div[24+1]$

$6+(-5)(+5)\div(25)$

$6+(-25)\div(25)$

$6+(-1)$

5