## Order of Operations

An understanding of "arithmetic" rules needs to be established to support carrying out calculations that involve more than one operation. This enables the development of more efficient calculations.

## Hints

## WORD BANK

Operations - A mathematical process. The most common operations are add, subtract, multiply and divide however there are many more, such as powers and roots.

Example: $\ln 25+6=31$ the operation is add.

## BODMAS

To correctly solve a calculation or simplify an expression, you must perform the operations in the correct order. This order is BODMAS.

## B - Brackets

O - Of (This would include fractions, powers, roots etc.)
D - Division
M - Multiplication
A - Addition
S - Subtraction

$$
\begin{aligned}
& \text { BODMAS } \\
& \text { () } \circ f \div+
\end{aligned}
$$

NUMERACY

## Examples

## Example 1：

$\begin{aligned} & 2+3 \times 4-5 \\ = & 2+12-5 \\ = & 14-5 \\ = & 9\end{aligned}$ $\left\{\begin{array}{l}\text { Do the } \\ \text { multiplication } \\ \text { first }\end{array}\right.$

Tidy up the rest
of the calculation

## Example 2：

$\begin{aligned} & (7-2) \times(5+1)+3 \\ = & 5 \times 6+3 \\ = & 30+3 \\ = & 33\end{aligned} \quad \begin{aligned} & \text { Do the } \\ & \text { tidy up the rest } \\ & \text { frirchets }\end{aligned}$

## Example 3：

$$
\begin{aligned}
& 40-3^{2} \times 2 \\
= & 40-9 \times 2 \\
= & 40-18 \\
= & 22
\end{aligned}
$$



Do the powers first
Tidy up the rest of the calculation


## Resources

## Youtube Video with examples－

https：／／www．youtube．com／watch？v＝dAgfnK528RA

## BODMAS Game－

http：／／www．math－play．com／Order－of－Operations－Millionaire／order－of－operations－millionaire－
game．html

## Worksheets－

https：／／www．math－drills．com／orderofoperations．php

