How to Solve Equations

ADD

Terms

- Terms are separated by + and symbols 1.
- You can only combine terms with the same variables (letters) 2.
- 3. A number in front of a variable is MULTIPLIED by the variable $(3g = 3 \times g)$

How to Combine Integers (positive and negative numbers)

- Look at the symbols (+ and -) signs 1
- 2. If the symbols are the same
- If the symbols are different = 3. SUBTRACT
- 4. Always use the symbols of the LARGEST number

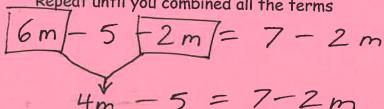
Order of Operations

- 1. P/B Parentheses/Brackets
- 2. E Exponents
- 3. M/D Multiple/Divide Left to Right

4. A/S Add/Subtract Left to Right

How to Solve Equations

- Combine like terms on the same side of the equation 1.
 - Write boxes around the same terms
 - Combine the same terms then cross out the boxes b.
 - Repeat until you combined all the terms



- Find the largest variable and move the smaller variable to the same side 2.
 - To move a term to the OPPOSITE side you must use the OPPOSITE operation
 - Always do the SAME thing to both sides of the equation b.

$$\frac{4m-5}{5} = 7 - 2m$$
 $\frac{+2m}{6m} + \frac{7}{2m} \rightarrow 6m - 5 = 7$

- Move the numbers to the OPPOSITE side of the variable 3.
 - Remember to use the OPPOSITE operation to move to the OPPOSITE side

$$6m - 3 = 7$$

+ $5 = 7$
+ $5 = 7$

If the variable has a number in front of it you must DIVIDE to remove it 3.

$$6m = 12$$
 $-6 - -6 - 7m = 2$

Substitute the value of the variable, if it is known 4.