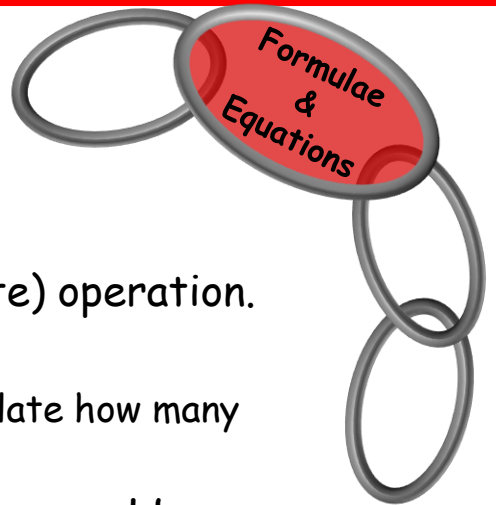


Formulae and Equations



Collecting terms



In total I have four trucks and three cars.



In algebra we write this as an expression.
 x is the cost of a truck and y is the cost of a car.

$$x + 3y + 3x = 4x + 3y$$

Rearrange

Do the inverse (opposite) operation.

Example

I want to be able to calculate how many hours I worked.

$$\text{Pay} = \text{Minimum wage} \times \text{Hours}$$

Use inverse operations

Abbreviated

$$\begin{aligned}
 P &= W \times H \\
 \div W & \left(\frac{P}{W} = \frac{W \times H}{W} \right) \div W \\
 \frac{P}{W} &= H \\
 \text{Simplify}
 \end{aligned}$$

Simplify

$$\text{Hours} = \text{Pay} \div \text{Wage}$$

Contextualise your answers

Remember

$$ab = a \times b$$

$$a^2 = a \times a$$

$$\frac{a}{b} = a \div b$$

$$2a = 2 \times a$$