## YEAR 10 - DEVELOPING ALGEBRA...

# Representing solutions of equations and inequalities

#### What do I need to be able to do?

#### By the end of this unit you should be able to:

- Form and solve equations and inequalities
- Represent and interpret solutions on a number line as inequalities
- Draw straight line graphs and find solutions to equations
- Form and solve equations and inequalities with unknowns on both sides

### Keywords

**Solution**: a value we can put in place of a variable that makes the equation true

Variable: a sumbol for a number we don't know uet.

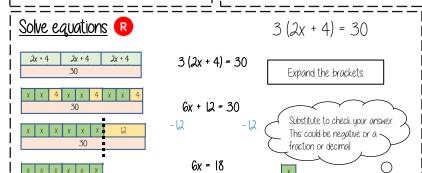
**Equation**: an equation says that two things are equal — it will have an equals sign =

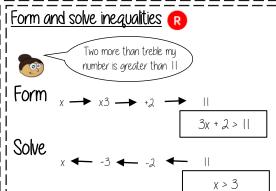
Expression: numbers, symbols and operators grouped together to show the value of something

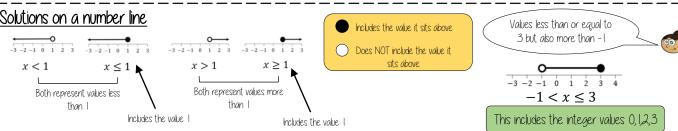
**Identity**: On equation where both sides have variables that cause the same answer includes  $\equiv$  **Linear**: an equation or function that is the equation of a straight line

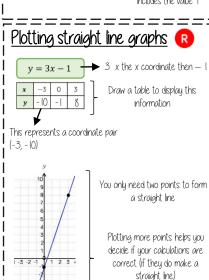
**Intersection**: the point that two lines meet

**Inequality**: an inequality compares two values showing if one is *greater* than, less than or equal to another.









Remember to join the points to make a line

