Solving Equations with Brackets

Remember:

- Whenever there are brackets, multiplication is involved.
- > If there is more than one term in the brackets, you have to remember to use the distributive property.
- After distributing, collect like terms. = Terms that contain the same variable are added/subtracted together and constant terms are added/subtracted together.

Collecting Like Terms

$$\frac{\text{conecting Like Terms}}{5x + 7 - x + 14} = 5x - x + 7 + 14 = 4x + 7 + 14 = 4x + 3x + 7 + 1 = 13x + 8$$

$$= x + 9x + 3x + 1 = 13x + 8$$

$$= 4a + 7b + 9 - 3 + 1b = 4a + 7b + 1b + 9 - 3 = 4a + 8b + 6$$

$$0.5y + 25 - y + 3 + y = 0.5y - y + y + 2.5 + 3 = 0.5y + 5.5$$

Solve the following equations:

L1
$$2(3x+1)+3(x+4)=41$$

$$6x+3+3x+12=41$$

$$9x+14=41$$

$$-14-14$$

$$9x=27$$

$$9=27$$

$$9=27$$

$$9=27$$