M9

## 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

| $5 x+7-x+14$ |
| :--- |
| $x+7+9 x+3 x+1$ |
| $4 a+7 b+9-3+1 b$ |
| $0.5 y+2.5-y+3+y$ |

Solve the following equations:
$\square$

| L2 | $4(x-7)-2(x+5)=12$ |
| :--- | :--- |
| L3 |  |
| $2 x+8-4(x+5)=6(x+10)$ |  |
| L4 |  |
| $\frac{8 x-1}{2}=\frac{4 x+9}{6}$ |  |

