**Like Terms:**

**Key ideas**

* A **term** consists of numbers and pronumerals combined with multiplication or division
	+ Eg.
		- $5$ is a term, $x$ is a term, $9a$ is a term, $abc$ is a term, $\frac{4xyz}{3}$ is a term.
* **Like terms** contain:
	+ The same letter(s);
	+ To the same power;
	+ Not necessarily in the same order
		- $2ab$ and $5ab$ are like terms
		- $x^{3}$ and $x$ are not like terms
		- $7abc$ and $4cab$ are like terms

* Like terms can be added or subtracted from each other to simplify an expression
	+ $3ab+$ $2ab=5ab$
	+ $11s-s=10s$
	+ $4x-2y+5x=9x-2y$

**Example 1**

Determine if the following pairs are like terms

* $3x$ and $2x$
* $3a$ and $3b$
* $2ab$ and $2a$
* $7y^{2}$ and $2y^{2}$

**Example 2**
Simplify the following

* $7x-2x=$
* $3ab+ba=$
* $4x+3y+2x+7y=$
* $4ab+3b-2ab+4b=$