

Learning Objectives:

Understand what a like term is

Identify like terms in an expression

Be able to combine like terms.

Expression $\rightarrow$ $3x + 4y - z + 2$ $\rightarrow$ 4 terms

Collect like terms

$$a + a = 2a \quad \text{Simplified}$$

$$2b + 3b = 5b$$

$$2a + 3b = 2a + 3b \quad (\text{can't be simplified})$$

$$2a + 3b + 2a - b = 4a + 2b$$

and

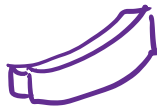
$$2ab + 1ab = 3ab$$

$$2ab + 2ba = 4ab$$

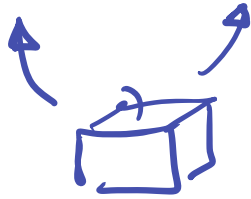
$2ab + 2ab$

eg.

$$a^2 + b^2 = a^2 + b^2$$



$$3a^2 + 4a^2 = \underline{\underline{7a^2}}$$



$$= 2a^2b + 4ab^2$$

$$= 2a^2b + 4ab^2$$

$$2a^2b + 4a^2b = \underline{\underline{6a^2b}}$$

eg. $7ac + 3b - 2ca + 4b - 5b$

$$\begin{aligned} \text{L} &= 7ac + 3b - 2ac + 4b - 5b \\ &= \underline{\underline{5ac + 2b}} \end{aligned}$$