



ALGEBRA RULES

ADDITION & SUBTRACTION

Group the same type together.

Example (Addition)

$$a + b + 3a + 5b = a + 3a + b + 5b \\ = 4a + 6b$$

Group the same type together.

Example (Subtraction)

$$10w + 7y - 2w - 3y = 10w - 2w + 7y - 3y \\ = 8w + 4y$$

MULTIPLICATION & DIVISION

“GEL” them together.

Examples (Multiplication)

$$a \times 7 = 7a$$

$$7gh \times 2 = 14gh$$



Express like fractions.

Example (Division)

$$9w \div 5 = \frac{9w}{5}$$

$$20y \div 4y = \frac{20y}{4y} = 5$$



POWER UP & MULTIPLICATION

$$a^2 = a \times a$$

$$b^2 = b \times b$$

$$c^3 = c \times c \times c$$

$$4a \times 3a = 12a^2$$

$$3b \times 7c = 21bc$$

$$5r \times 2w \times 3h = 30hrw$$

