

IMPORTANT!

ALGEBRA RULES

	1 ST Term: 3 2 ND Term: p	1 ST Term: w 2 ND Term: p
ADDITION	$3 + p$	$w + p$
SUBTRACTION	If p is subtracted from 3 $3 - p$	If p is subtracted from w $w - p$
	If 3 is subtracted from p $p - 3$	If w is subtracted from p $p - w$
MULTIPLICATION	$3 \times p = 3p$	$p \times w = pw$
DIVISION	If 3 is divided by p $\frac{3}{p}$	If w is divided by p $\frac{w}{p}$
	If p is divided by 3 $\frac{p}{3}$	If p is divided by w $\frac{p}{w}$
Square Numbers	$p \times p = p^2$	
Cube Numbers	$p \times p \times p = p^3$	



ALGEBRA RULES

ADDITION & SUBTRACTION

Group the same type together.

Example (Addition)

$$a + b + 2a + 3b = a + 2a + b + 3b$$

$$= 3a + 4b$$

Group the same type together.

Example (Subtraction)

$$6w + 5y - 2w - 3y$$

$$= 6w - 2w + 5y - 3y$$

$$= 4w + 2y$$



MULTIPLICATION & DIVISION

“GEL” them together.

Examples (Multiplication)

$$a \times 3 = 3a$$

$$4gh \times 2 = 8gh$$

Express like fractions.

Example (Division)

$$6w \div 5 = \frac{6w}{5}$$

$$12y \div 4y = \frac{12y}{4y} = 3$$

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

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

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

$$2a \times 3a = 6a^2$$

$$3b \times 10c = 30bc$$

$$7r \times 2w \times 3h = 42hrw$$

