

SWBAT: use the
Distributive Property

a. multiplication over
Arithmetic. ADDITION.

$$\underline{3}(2+6) = \underline{3} \cdot 2 + \underline{3} \cdot 6$$

$$(2+6)\underline{3} = 2 \cdot \underline{3} + 6 \cdot \underline{3}$$

Algebra

$$\underline{a}(b+c) = \underline{a} \cdot b + \underline{a} \cdot c$$

$$(b+c)\underline{a} = b \cdot \underline{a} + c \cdot \underline{a}$$

b.) multiplication over
SUBTRACTION.

Arithmetic

$$\underline{6}(7-4) = \underline{6} \cdot 7 - \underline{6} \cdot 4$$

$$(7-4)\underline{6} = 7 \cdot \underline{6} - 4 \cdot \underline{6}$$

Algebra

$$\underline{a}(b-c) = \underline{a} \cdot b - \underline{a} \cdot c$$

$$(b-c)\underline{a} = b \cdot \underline{a} - c \cdot \underline{a}$$

DISTRIBUTIVE PROPERTY

WE CAN MULTIPLY A
factor to each term
INSIDE PARENTHESIS.

$$\underline{9(5-3)}$$

$$9 \cdot 5 - 9 \cdot 3$$

$$45 - 27$$

$$18$$

$$(5+7+a) \underline{2}$$

$$2 \cdot 5 + 2 \cdot 7 + 2 \cdot a$$

$$10 + 14 + 2a$$

Not $24 + 2a$ STOP

Like Terms

$$\underline{z(x-y)}$$

$$z \cdot x - z \cdot y$$

$$y \cdot 4 + y \cdot 6$$

$$\underline{y(4+6)}$$

y times the quantity
4 plus 6.

$$6(3)(-2)$$

Not use
Dist. Prop

$$3(8 \div 4) = 6$$

$$3 \cdot 8 \div 4 = 24 \div 4 = 6$$

WRONG

$$3 \cdot 4 = 12 \div 2 = \cancel{6}$$

$$\underline{6}(a - b - c)$$

$$\underline{6} \cdot a - \underline{6} \cdot b - \underline{6} \cdot c$$

$$6a - 6b - 6c$$

Simplified

James lost 8lbs
wt. now 93 lbs.

$$\underline{x - 8 = 93}$$

$$x = 93 + 8$$

$$x = 101$$

1,420,450,751,694