

Date

Ch 3, Lesson 6: Distributive Property

Distributive property tells us that:

$$a(b+c) = ab+ac$$

the product (multiplication)
of expressions

is equal
to
is the same
as

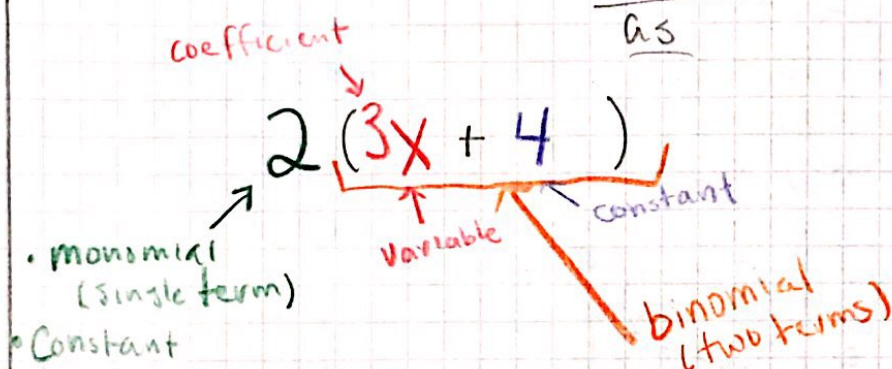
the sum
(addition)
of terms

$$5(2+3)$$

$$5(\check{5}) = \boxed{25}$$

$$5(2) + 5(3)$$

$$\check{10} + \check{15} = \boxed{25}$$



$$2(3x+4) = 2(3x) + 2(4) = \boxed{6x+8}$$

Double Distribution / F.O.I.L. Method:

We use this method to multiply two binomials.

example:

$$(x+2)(3x+4)$$

$$= x(3x) + x(4) + 2(3x) + 2(4)$$

$$= 3x^2 + 4x + 6x + 8$$

$$= \boxed{3x^2 + 10x + 8}$$

F. = first

O. = outside

I. = inside

L. = last