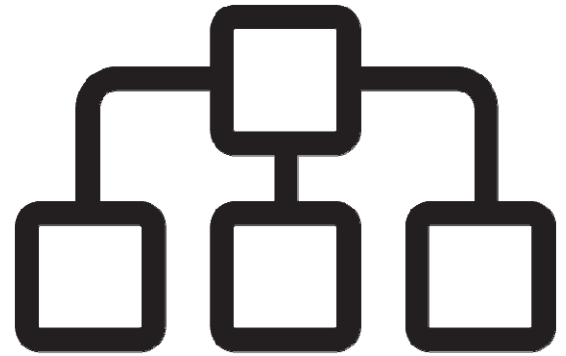


## Multiplying Binomials Lesson

Multiply the following terms.

$$(x + c)(3x + 4y - 3)$$



**Explanation:** The best way to approach is to multiply each set of individual terms within each parenthesis set.

Start with (x) term.

$$(x + c)(3x + 4y - 3)$$

1 2 3

$$1) (x)(3x) = 3x^2$$

$$2) (x)(4y) = 4xy$$

$$3) (x)(-3) = -3x$$

Put it together:  $3x^2 + 4xy - 3x$

$$(x + c)(3x + 4y - 3)$$

4 5 6

$$4) (c)(3x) = 3cx$$

$$5) (c)(4y) = 4cy$$

$$6) (c)(-3) = -3c$$

Put it together:  $3cx + 4cy - 3c$

Put both sets together to solve:  $3x^2 + 4xy - 3x + 3cx + 4cy - 3c$