

## Polynomials 2

### Multiplying Polynomials

To multiply polynomials:

- 1) multiply the coefficients (multiply the numbers)
- 2) multiply the variables (add the exponents)

### Examples

Multiply each of the following:

a)  $(-5x)(2x)$

b)  $(4y)(2x)$

c)  $3(2x + 4)$

d)  $4x(2x - 1)$

e)  $(2 + 6c)(c)$

f)  $3x(2x - 4y + 6)$



Complete the following:

**Practice - Multiplying a Polynomial and a Monomial**  
Check your solutions using the key provided.

Outcomes:

PR5 - Demonstrate an understanding of polynomials  
PR7 - Multiply and divide polynomials