

NAME _____

Module 11 Simplifying Algebraic Expressions
with Polynomials

Lesson 4 Multiplying Monomials and Binomials

**guided
notes**

Lesson Objectives

- Find the product of two monomials.
- Find the product of a monomial and a binomial.
- Find the product of two binomials using the Distributive Property twice.
- Find the product of two binomials using the FOIL Method.

To multiply monomials, use the **Commutative** _____ and

Associative _____ Properties to rearrange the terms.

Then use the **multiplication** _____ rule for **exponents** _____ to

simplify the expression.

1 Simplify: $x^3y \cdot 6xy^2$

$6x^4y^3$

2 Simplify: $2x(x + 2)$

$2x^2 + 4x$

3 Simplify: $-4ab(8a - 3b^3)$

$-32a^2b + 12ab^4$

To multiply binomials either use the **Distributive** _____ Property twice or

use the **FOIL** _____ Method.

FOIL stands for F **irst** _____, O **uter** _____,

I **inner** _____, L **ast** _____

4 Simplify: $(2p - 5)(p - 4)$

$2p^2 - 13p + 20$

