

NAME _____

DATE _____

Module 12 Simplifying Algebraic Expressions
by Factoring Polynomials

Lesson 2 Factoring by Grouping



**guided
notes**

Lesson Objectives

- Factor out a common binomial factor.
- Factor by *grouping*.

When factoring a polynomial, look for the _____ first.

The Distributive Property states that $a(b + c) =$ _____.

1 Factor: $x(y + 4) - 3(y + 4)$

Steps for factoring by grouping:

- Form groups so that _____ has a common factor.
- Factor the _____ out of each group.
- Factor out the _____ from the resulting terms.

2 Factor: $ar + as + br + bs$

3 Factor: $10 - xy - 2y + 5x$

