## NAME

Module 12	Simplifying Algebraic Expressions
	by Factoring Polynomials
Lesson 2	Factoring by Grouping

## **Lesson Objectives**

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



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

Steps for factoring by grouping:

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

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

(r + s)(a + b)

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

(5 - y)(x + 2)