

NAME \_\_\_\_\_

**Module 12** Simplifying Algebraic Expressions  
by Factoring Polynomials  
**Lesson 5** Factoring  $ax^2 + bx + c$

**guided  
practice**

**Set 1**

Factor using the *guess-and-check* method.

1.  $2m^2 - 11m + 5 =$

$(m - 5)(2m - 1)$

2.  $5t^2 + 22t + 8 =$

$(5t + 2)(t + 4)$

3.  $3y^2 - y - 4 =$

$(3y - 4)(y + 1)$

**Set 2**

Factor using the *grouping* method.

1.  $4r^2 - 3r - 10 =$

$(r - 2)(4r + 5)$

2.  $5x^2 + 7x - 6 =$

$(5x - 3)(x + 2)$

3.  $12g^2 - 28g - 5 =$

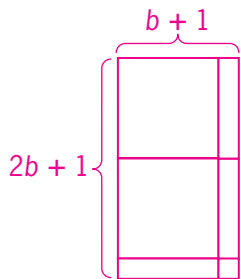
$(6g + 1)(2g - 5)$

**Manipulatives Set**

Factor.

1.  $2b^2 + 3b + 1 =$

$(b + 1)(2b + 1)$



2.  $2x^2 + x - 3 =$

$(x - 1)(2x + 3)$

