

# Binomial Multiplication, Part Two— Dynamic Algebra Tiles

Name: \_\_\_\_\_

You will multiply two binomials using virtual algebra tiles.

## EXPLORE

1. Open **Binomial Multiplication Part Two--Dynamic Algebra Tiles.gsp**.  
Go to page “Grid 1.”

Follow these steps:

- Use the algebra tiles to solve the multiplication problems that follow. Drag the orange points to model the binomial factors in each problem.
- Draw a sketch of your work, write the partial products, and find their sum.

2.  $(x - 2)(x + 2) =$  \_\_\_\_\_

3.  $(x - 5)(x - 4) =$  \_\_\_\_\_

4.  $(x - 8)(x - 3) =$  \_\_\_\_\_

Now go to page “Grid 2.” Follow these steps:

- Use the algebra tiles to solve the multiplication problems that follow. Drag the orange points and the blue points to model the binomial factors in each problem.
- Draw a sketch of your work, write the partial products, and find their sum.

5.  $(2x + 1)(3x - 2) =$  \_\_\_\_\_

6.  $(5x - 5)(4x - 3) =$  \_\_\_\_\_

7.  $(3x - 8)(3x - 8) =$  \_\_\_\_\_

8. Solve a multiplication problem with two binomial factors that you choose.  
Sketch your solution below.