

Binomial Multiplication, Part Two— Dynamic Algebra Tiles

Name: _____

You will multiply two binomials using virtual algebra tiles.

EXPLORE

1. Open <http://geometricfunctions.org/links/binomial-multiplication>. Tap the section heading “Binomial Multiplication Part 2.”

On page 1 of the sketch that appears, 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 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.