

Binomial Multiplication, Part One— Dynamic Algebra Tiles

Name: _____

You will multiply binomials using virtual algebra tiles.

EXPLORE

1. Open **Binomial Multiplication Part One--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. $(x + 3)(x + 3) =$ _____

3. $(x + 2)(x + 5) =$ _____

4. $(x + 7)(x + 6) =$ _____

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. $(3x + 3)(4x + 8) =$ _____

6. $(5x + 4)(2x + 7) =$ _____

7. $(2x + 5)(2x + 5) =$ _____

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