

Using Algebra Tiles

EXPLORE:

- Simplify each side to decide which side is greater.
- Click the tiles to toggle between positive and negative.
- Double click to rotate.
- Drag about a group of tiles to select. Then drag tiles to the tray to remove.

[CC3 2-47 Student eTool](#)

Build:

A rectangle with all of the pieces of the expansion of $(2x + 3)(x - 5)$.

- Remove the background and all of the tiles. Close the Backgrounds and open the Algebra Tiles.
- Drag a few tiles out to the display. Select about them. Copy and paste numerous times.
- Drag them to position them.
- Use the arrows and labels to illustrate.

Remove all of the tiles to get a clean display

Create this drawing!

| | | | | |
|-------|-------|------|------|------|
| x^2 | x^2 | x | x | x |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |

SAVE:

- Go to the menu and "Options".
- Write a title and description.
- Enable/disable tools.
- Save and copy the URL and paste in the Google Sheet.

CPM Tiles

Title and Description

Binomials

$(2x + 3)(x - 5) = 2x^2 + 3x - 10x - 15$

The rectangle at right shows this answer.

Enable / Disable Tools

Backgrounds

Algebra Tiles

Base Ten Blocks

Number Lines

Area and Perimeter

General Tools

Show Tray on Load

$(2x + 3)$

| | | | | |
|-------|-------|------|------|------|
| x^2 | x^2 | x | x | x |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |
| $-x$ | $-x$ | -1 | -1 | -1 |

$(x - 5)$