



INT1 3.2.1: 3-74 Student eTool

Click on the link below.

[3-74 Student eTool \(CPM\)](#)

INT1 3-74 Student eTool:

CPM Tiles

Int1 3-74 Student eTool

3-74. Use this eTool to complete the following problems.

a. Arrange the algebra tiles into one large rectangle, with the x^2 -tile in the lower left corner. Remember to flip the algebra tiles so that the positive side of each tile is facing up. On your paper, sketch what your rectangle looks like.

b. The area of a rectangle can be written as the sum of the areas of all its parts. Write the area of the rectangle as the sum of its parts. Simplify your expression for the sum of the rectangle's parts.

c. The area of a rectangle can also be written as length \times width. What are the dimensions (length and width) of the overall rectangle you made? Label your sketch with its dimensions, then write the area of the rectangle as a product, that is, length \times width.

d. Write an equation that shows that the area written as a sum is equivalent to the area written as a product.

The main area displays a collection of algebra tiles: one large blue square labeled x^2 , several smaller blue squares labeled x , and many small red squares labeled 1 . The tiles are arranged in a pattern that suggests a larger rectangle is being formed.