

Multiplying Binomials Activity Sheet

A. Steps for the box method

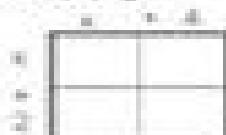
Use the grid model when multiplying binomials to find the product without distributing both terms. The side lengths of the small boxes will be determined by the terms from each binomial.

1. Find the area of each small box.

2. Find the areas of the large box by combining the areas of all four small boxes.

Example: Find the product of $(x + 2)(x + 4)$ by finding the total area of the boxes.

1. Each square will represent the length/width of one of the large box. So you'll have to "x" out the "x" techniques.



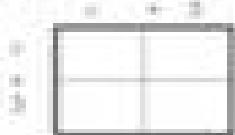
Step 1: Determine the area of each small box.

$$(x+2)(x+4) =$$

B. As you work through the problems below, think about what is happening mathematically with the box method. Try to notice patterns or repeated procedures and attempt to derive a procedure that does not require the use of boxes.

Use the grid model you learned to find the product of the binomials.

1. $(x + 2)(x + 3)$



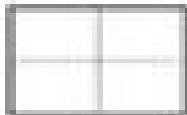
Answer: _____

2. $(x + 4)(x + 2)$



Answer: _____

3. $(x + 1)(x + 7)$



Answer: _____

4. $(x + 2)(x + 6)$



Answer: _____