

# Generic Rectangles- I



**Directions:** For #'s 1-4, solve each problem using the **area model**, either with algebra tiles or just by drawing, and then record the **picture** and **equation**. After this, on the picture, draw lines to divide the picture into the 4 “sections”-  $x$  “squares”, vertical  $x$ 's, horizontal  $x$ 's and ones. Next, write the **TOTAL** for EACH of the 4 sections. Lastly, complete the **generic rectangle**. For #'s 5-10, draw and complete a generic rectangle to solve.

1.

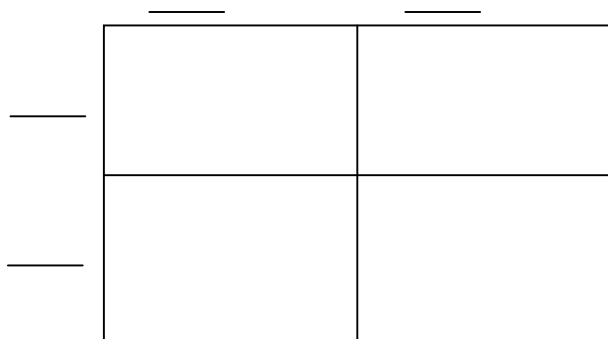
Problem

$$(3x + 4)(2x + 2)$$

Picture

Equation

Generic Rectangle



Total:

2.

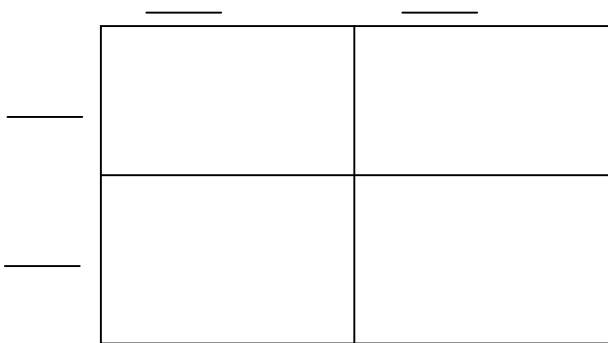
Problem

$(x + 2)(2x + 3)$

Picture

Equation

Generic Rectangle



Total:

3.

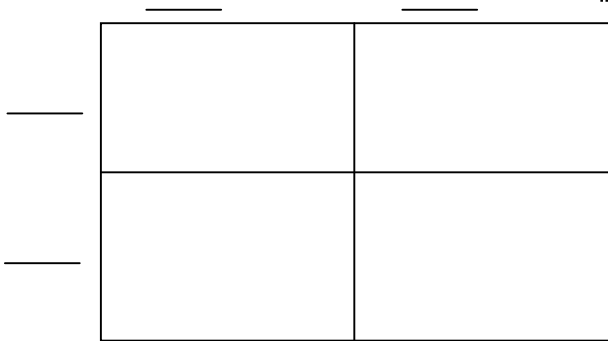
Problem

$$(3x + 1)(x + 5)$$

Picture

Equation

Generic Rectangle



Total:

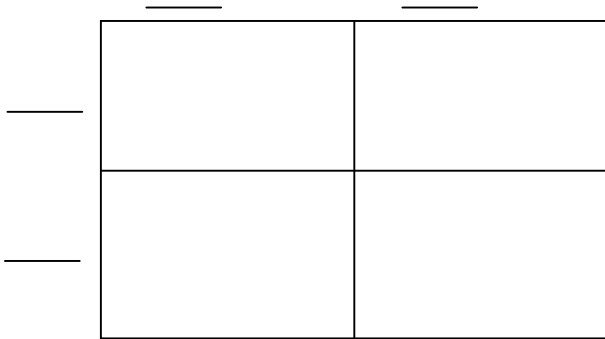
4. Problem

$$(x + 5)^2$$

**Picture**

**Equation**

**Generic Rectangle**



**Total:**

5.  $(4x + 1)(2x + 3)$

**Generic Rectangle**


**Total:**

**Equation:**

6.  $(6x + 3)(2x + 8)$

**Generic Rectangle**


**Total:**

**Equation:**

7.  $(3x + 4)^2$

**Generic Rectangle**


**Total:**

**Equation:**

8.  $(8x + 5)(4x + 7)$

**Generic Rectangle**


**Total:**

**Equation:**

9.  $(10x + 5)(4x + 5)$

**Generic Rectangle**


**Total:**

**Equation:**

10.  $(5x + 1)^2$

**Generic Rectangle**


**Total:**

**Equation:**