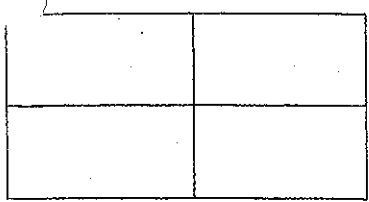


# 5-3 Notes

Multiplying Binomials-We use the Area Model! ☺

Name \_\_\_\_\_

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



1.  $(6h - 7)(2h + 3)$

2.  $3x(2x^2 + 9x - 5)$

Expand the following. Put your answers in standard form.

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

6.  $(9x - 6)(5x + 1)$

7.  $(2x - 3)(3x - 4)$

8.  $b(-4b^2 + 6b - 5)$

What does it mean to square something?  
we use the area model to expand the following?

How can

9.  $(x + 7)^2$

10.  $(4k - 3)^2$

Expand the following.

11.  $(d + 8)(d - 8)$

12.  $(2c - 4)(2c + 4)$

Do you notice anything "neat" that happened in #11-12?

How are #11-12 different from the previous problems?

Try the following.

1.  $4x^2(3x^2 - 8x + 9)$

2.  $(2m - 5)^2$

3.  $(3x + 2)(4x^2 - 5x - 6)$