#32

Name:_____ Date:_____

8A; Algebra 1 Period_____

Homework

1) $(d + 9)(d - 5) =$

2) $(5y - 2)(3y - 1) =$

3) $(12 - r)(6 + r) =$

4) $(a + 5)^2 =$

5) $(2x + 3)(2x - 3) =$

6) $(2z + 5w)(3z - 4w) =$

Create a table to help you evaluate the following products

7) $(5k + 2)(3k + 4) =$

8) $(3x + 4y)(3x - 4y) =$

9) $(m + 3)(m - 7) =$

10) The length of a rectangle is $2x - 5$ and its width is $x + 7$. Express the area of the rectangle as a polynomial in simplest form.

11) $(x + 2)(x^2 + 3x + 5) =$

12) If the side length of a square is given by the binomial $(4x - 3)$ then which of the following gives the square's area?

(a) $8x + 6$ (c) $16x^2 + 24x + 9$

(b) $16x^2 - 9$ (d) $16x^2 - 24x + 9$

**Challenge
Rewrite the following expression without the use of parentheses. Keep in mind that you must multiply the binomials together first and then perform the subtraction.

$(x - 3)(x - 5) - (x + 1)(x - 4)$