

Name \_\_\_\_\_

**MULTIPLYING BINOMIALS**

**Directions:** Find the product of each pair of binomials below. Combine all like terms and write the product in simplest form on the line provided next to each expression.

**Example:**  $(x + 5)(x + 1) = x^2 + 5x + 1x + 5 =$   $x^2 + 6x + 5$

1)  $(x + 2)(x + 3) =$  \_\_\_\_\_

2)  $(x + 6)(x + 7) =$  \_\_\_\_\_

3)  $(x + 8)(x + 2) =$  \_\_\_\_\_

4)  $(x + 1)(x + 9) =$  \_\_\_\_\_

5)  $(x + 5)(x + 5) =$  \_\_\_\_\_

6)  $(x + 2)(x + 7) =$  \_\_\_\_\_

7)  $(x + 4)(x + 3) =$  \_\_\_\_\_

8)  $(x + 1)(x + 1) =$  \_\_\_\_\_

9)  $(x + 3)(x + 7) =$  \_\_\_\_\_

10)  $(x + 8)(x + 9) =$  \_\_\_\_\_

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**Example:**  $(x + 5)(x + 1) = x^2 + 5x + 1x + 5 =$   $x^2 + 6x + 5$

1)  $(x + 2)(x + 3) =$   $x^2 + 5x + 6$

2)  $(x + 6)(x + 7) =$   $x^2 + 13x + 42$

3)  $(x + 8)(x + 2) =$   $x^2 + 10x + 16$

4)  $(x + 1)(x + 9) =$   $x^2 + x + 9$

5)  $(x + 5)(x + 5) =$   $x^2 + 10x + 25$

6)  $(x + 2)(x + 7) =$   $x^2 + 9x + 14$

7)  $(x + 4)(x + 3) =$   $x^2 + 7x + 12$

8)  $(x + 1)(x + 1) =$   $x^2 + 2x + 1$

9)  $(x + 3)(x + 7) =$   $x^2 + 10x + 21$

10)  $(x + 8)(x + 9) =$   $x^2 + 17x + 72$