

**HW Distributive Property and Expression Evaluation (10 Questions Total)**

Name: \_\_\_\_\_ Section: \_\_\_\_\_

Please show me all of the work and box the answers.

**Section 1: Distributive Property with Multiple Variables**

1. Simplify:  $3(y + 2b)$

2. Simplify:  $5x - 2(x + 4y)$

3. Simplify using the distributive property:  $4(3m + 2n - 5) - (-12)$

4. Simplify completely:  $-2a(3 + 4c) + 5a$

5. Simplify completely:  $2a(a - 4c) + 5a$

6. Apply distributive property and combine like terms:  $-6p + 3(6p + 4q)$

**Section 2: Evaluate the Expression**

7. Evaluate  $3x + 4y$  when  $x = 2$  and  $y = 5$

8. Evaluate  $2a(b + 3)$  when  $a = 4$  and  $b = 2$

9. Evaluate  $5(x + 2y) - 3y$  when  $x = 1$  and  $y = 3$

10. Evaluate  $2m + 3n - 4p$  when  $m = 3$ ,  $n = 2$ ,  $p = 1$