Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Multiplying Variables

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SPEED WORK (QUICKLY)**

-2(x) = -4(5k) = -(-7a) =

9(3y) = -10(-6x) = -8(6k) =

8( -2w) = 3(4w) = 9(-4x) =

*Distribute the number and simplify using shapes, colors, symbols.*

1. – (- 7x2 + 3x2 -14 + 9)
2. 3(9y2 – 2y + 4y)
3. -4(5y – 4)
4. -5( 11 + 3x)
5. 15xy + 8y2 + 10 – 3xy +y2 –17
6. –2 (5x2 +10 – 3x)
7. 15(x + 2)
8. 4 ( 10 – 3y)
9. 7(y – 4 + 2x)
10. 11 – 15x + 30 + 19x - 5
11. –(14x – 10 – 8x + 4)
12. – (3x2 – 8x + 4)

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HW# 19

*Distribute the number (use ARROWS) and simplify using shapes, colors, and symbols.*

1. –5 (x2 + 8x – 4)
2. –(3x2 +10y2 – 3x + 7x)
3. 10 – (5$x^{2}$ – 11 + 9x + 3)
4. A = $4x^{2}-13x+15$

B = 5$x^{2}+9x+5$

Simplify A + B

1. -6 (a+8)
2. 7 (-5n +7)
3. 4 ( 9 – 6p)
4. -3 (-3y2 + 8x – 9)