Distributive Property Using Models

Name _____   Date _____

Rewrite each expression using the distributive property. Model each expression using algebra tiles to justify your answer.

1. $4(x + 5) + 2x =$ _____

2. $6(x - 3) + 5 =$ _____

3. $3(-2x + 1) + 2(x + 1) =$ _____

4. $2(-x - 2) + 8 =$ _____

5. $5(x - 1) + 3(x - 1) =$ _____

Rewrite each expression using the distributive property. Model each expression using algebra tiles to justify your answer.

1. $4(x + 5) + 2x = 4x + 20 + 2x = 6x + 20$

    Models will vary.

2. $6(x - 3) + 5 = 6x - 18 + 5 = 6x - 13$

    Models will vary.

3. $3(-2x + 1) + 2(x + 1) = -6x + 3 + 2x + 2 = -4x + 5$

    Models will vary.

4. $2(-x - 2) + 8 = -2x - 4 + 8 = -2x + 4$

    Models will vary.

5. $5(x - 1) + 3(x - 1) = 5x - 5 + 3x - 3 = 8x - 8$

    Models will vary.