NAME _____ DATE _____ PERIOD _____

Lesson 3 Homework Practice

Adding Linear Expressions

Add. Use models if needed.

1. $(5x + 21) + (10x + 13)$

2. $(-9x + 12) + (-5x + 14)$

3. $(-4x + 6) + (6x - 10)$

4. $(4x + 17) + (15x - 16)$

5. $(-3x - 1) + (-x - 9)$

6. $(2x - 6) + (-7x + 5)$

7. $(-x + 27) + (16x + 4)$

8. $(-16x - 14) + (13x + 26)$

9. $(3 + 12x) + (-8x + 4)$

10. $(5 + 16x) + (18 + 6x)$

11. $(14x + 8) + (-12x + 3)$

12. $(-7x - 6) + (-3x - 5)$

13. $(-25x + 19) + (9x - 6)$

14. $(20x + 19) + (-21x - 14)$

15. $(2x - 8) + (7x - 1) + (-5x + 6)$

16. $(-15x - 3) + (7x - 6) + (-2x + 9)$

17. $(-3x + 10) + (-2x - 11) + (-3x - 12)$

18. $(1 + 4x) + (-5x + 22) + (-8x + 3)$

19. $(6x - 7) + (4x - 2) + (-9x + 3) + (2x + 4)$

20. A company can model the profit it makes on selling an item at price x by using the expression $2000x - 10{,}500$. A second item sold at the same price brings in a profit of $1850x - 11{,}600$. Write and simplify an expression that reflects the total profit from the sale of both items.