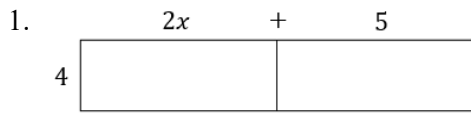


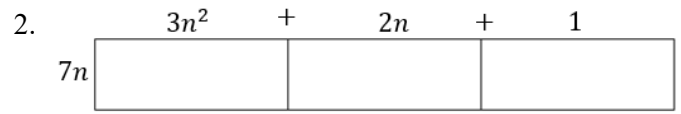
Math 2 Unit 9 Worksheet 2
Multiplying Polynomials

Name: _____
 Date: _____ Per: _____

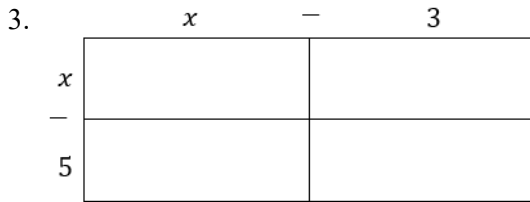
[1-4] **Area Model.** Multiply using the area model. Write the problem being modeled and your solution on the line below.



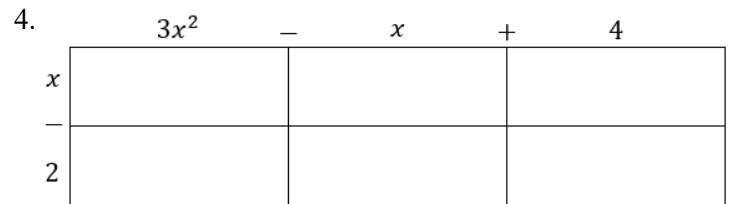
_____ = _____



_____ = _____



_____ = _____



_____ = _____

[5-28] Simplify each expression. Write each answer in standard form.

5. $(2x + 3)(x + 4)$

6. $(a + 11)(a + 11)$

7. $(2m + 7)(m - 4)$

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

9. $(x + 8)^2$

10. $(3x + 1)^2$

11. $4(a + 2)(3a - 2)$

12. $(5x - 6)^2$

13. $3(y - 6)(y + 7)$

14. $(2x + 7)(2x - 7)$

15. $(a - 13)(a - 13)$

16. $(3y - 4)^2$

17. $(5h - 3)^2$

18. $3(2x + 5)(2x - 5)$

19. $2(5c + 1)(3c + 4)$

20. $(5k - 6)^2$

21. $(3n - 4)(3n + 4)$

22. $(4p + 1)(4p + 1)$

23. $(p - 4)(2p^2 + 3p - 35)$

24. $(4x^2 + 2x + 3)(3x - 8)$

25. $(5t^2 + 3t - 11)(6t - 1)$

26. $(x - 5)(x + 2)(x + 4)$

27. $(2x + 1)(x - 3)(x - 5)$

28. $(c + 4)(c - 3)(3c + 5)$

29. Look through your answers for questions 5-28 and answer the following questions.

a. Which problem numbers had answers that were binomials? {Hint: Four problems have answers like this}

b. What pattern do you notice in the original question of these four problems?