LESSON 10.2

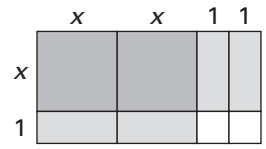
NAME _____ DATE _____

Practice A

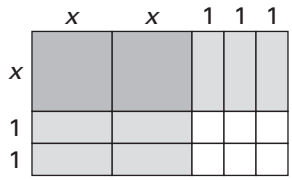
For use with pages 584–589

Write an equation that represents the product of two binomials as shown in the area model.

1.



2.



Find the product.

3. $2(3x + 1)$

4. $-4(3x - 5)$

5. $(2x)(5x - 1)$

6. $6n(4 - 5n)$

7. $x^2(3x - 7)$

8. $(8m^2 - 4m + 1)(3m^2)$

9. $(-5t)(t^2 + 2t - 4)$

10. $3x^2(2x^2 - 4x - 7)$

11. $(5a^2 + 3a - 7)(-2a^2)$

Use the distributive property to find the product.

12. $(t + 3)(t + 3)$

13. $(n + 5)(n + 1)$

14. $(2x + 5)(x - 4)$

15. $(4a + 5)(2a - 3)$

16. $(3x^2 + 2x + 1)(x + 3)$

17. $(4x^2 - 3x + 2)(2x + 5)$

Use the FOIL pattern to find the product.

18. $(w + 5)(w + 2)$

19. $(3z + 1)(z + 2)$

20. $(x - 2)(x - 3)$

21. $(4x + 7)(x + 5)$

22. $(2x - 2)(x + 8)$

23. $(5n + 3)(4n - 2)$

Find the product.

24. $(3b - 2)(2b - 3)$

25. $(5x + 4)(3x - 2)$

26. $(10n + 5)(3n - 2)$

27. $(x - 7)(3x + 9)$

28. $(4t + 3)(4t + 3)$

29. $(x^2 + 3x + 1)(x - 2)$

Find an expression for the area of the figure. Give your answer as a quadratic polynomial.

30.

31.