2-2 The Distributive Property (continued)

Example 3   Simplify.

a. $3(4m + 5)$ b. $4(6 - x)$

Solution   Use the distributive property.

a. $3(4m + 5) = 3(4m) + 3(5)$ b. $4(6 - x) = 4(6) - 4(x)$
$= 12m + 15$ $= 24 - 4x$

Simplify.

25. $2(m + 5)$ 26. $7(x - 4)$ 27. $3(3n + 6)$

28. $5(7z - 2)$ 29. $9(6 - c)$ 30. $1(4 + y)$

31. $6(3 - 4x)$ 32. $4(5 + 7w)$ 33. $8(a - 6)$

34. $3(n + 4)$ 35. $5(6m + 2)$ 36. $7(8p - 3)$

37. $6(9 - w)$ 38. $2(8 - 7c)$ 39. $9(3 + 5n)$

40. Eric Anderson bought 3 videotapes for $4.50 each and 3 CDs for $12.50 each. How much more did he spend on the CDs than on videotapes?

Spiral Review

41. Evaluate mn when $m = 6$ and $n = 8$. *(Lesson 1-1)*

42. Find the sum: $2.84 + 0.75$ *(Toolbox Skill 11)*

43. Simplify: $6(2y + 8)$ *(Lesson 2-2)*

44. Is 216 divisible by 3? by 9? *(Toolbox Skill 16)*

45. Evaluate $3x^4$ when $x = 3$. *(Lesson 1-9)*