

Practice 2-4

The Distributive Property

Simplify each expression.

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|---------------------------------|--------------------------------|--------------------------------|
| 1. $2(x + 6)$ | 2. $-5(8 - b)$ | 3. $4(-x + 7)$ |
| 4. $(5c - 7)(-3)$ | 5. $-2.5(3a + 5)$ | 6. $-(3k - 12)$ |
| 7. $-\frac{3}{4}(12 - 16d)$ | 8. $\frac{2}{3}(6h - 1)$ | 9. $(-3.2x + 2.1)(-6)$ |
| 10. $3.5(3x - 8)$ | 11. $4(x + 7)$ | 12. $-2.5(2a - 4)$ |
| 13. $\frac{2}{3}(12 - 15d)$ | 14. $-2(k - 11)$ | 15. $-\frac{1}{3}(6h + 15)$ |
| 16. $(2c - 8)(-4)$ | 17. $-(4 - 2b)$ | 18. $2(3x - 9)$ |
| 19. $4(2r + 8)$ | 20. $-5(b - 5)$ | 21. $3(f + 2)$ |
| 22. $6h + 5(h - 5)$ | 23. $-5d + 3(2d - 7)$ | 24. $7 + 2(4x - 3)$ |
| 25. $2(3h + 2) - 4h$ | 26. $2(4 + y)$ | 27. $\frac{1}{2}(2n - 4) - 2n$ |
| 28. $-w + 4(w + 3)$ | 29. $0.4(3d - 5)$ | 30. $-4d + 2(3 + d)$ |
| 31. $2x + \frac{3}{4}(4x + 16)$ | 32. $2(3a + 2)$ | 33. $5(t - 3) - 2t$ |
| 34. $5(b + 4) - 6b$ | 35. $\frac{2}{5}(5k + 35) - 8$ | 36. $0.4(2s + 4)$ |
| 37. $\frac{2}{3}(9b - 27)$ | 38. $\frac{1}{2}(12n - 8)$ | 39. $0.5(2x - 4)$ |
| 40. $2(a - 4) + 15$ | 41. $13 + 2(5c - 2)$ | 42. $7 + 2(\frac{1}{5}a - 3)$ |
| 43. $5(3x + 12)$ | 44. $2(m + 1)$ | 45. $4(2a + 2) - 17$ |
| 46. $-4x + 3(2x - 5)$ | 47. $3(t - 12)$ | 48. $-6 - 3(2k + 4)$ |

Write an expression for each phrase.

49. 5 times the quantity x plus 6
50. twice the quantity y minus 8
51. the product of -15 and the quantity x minus 5
52. 32 divided by the quantity y plus 12
53. -8 times the quantity 4 decreased by w
54. the quantity x plus 9, times the quantity 7 minus x