

## Chapter 4 Section 5: Solving Equations Using the Distributive Property

### Problems

*Solve.*

1.  $8(x + 4) = 0$

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2.  $5(y + 7) = 15$

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3.  $2(z + 9) = -18$

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4.  $-4(t + 8) = -16$

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5.  $-5(9 + 2u) = 25$

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6.  $-3(v - 4) = 12$

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7.  $2(5w - 8) = 44$

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8.  $7(4x + 3) = -63$

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9.  $-(10m - 7) = -33$

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10.  $2p - 7(p + 5) = -10$

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11.  $4n = 5(n - 16) + 3n$

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12.  $6(3m - 5) = 15m + 24$

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13.  $2q + 6 = 2(2q + 5)$

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14.  $6s - 4(2s + 9) = s + 6$

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15.  $2(4r + 15) + 6 = r - 6$

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16.  $3(4f - 9) = 86 + f + 8$

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17.  $-2 - d - 6 = 7(d + 8)$

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18.  $9(2x + 6) = 9x - 27 + 8x$

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19.  $8(2k - 11) = 13k - 98 + k$

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20.  $4(3x - 12) = 8x - 28 + 2x$

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21.  $4(f + 3) - 5(2f - 7) = 29$

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22.  $3(4g + 6) - (8g - 12) = 46$

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23.  $3(2x - 5) - (4x + 6) = -71$

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24.  $6(3u + 6) = 3(8u - 16)$

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25.  $9(3x - 11) = 3(4x + 7)$

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26.  $4(5r + 3) = 2(7r + 6)$

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27.  $3(2v - 4) = 4(v - 7)$

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28.  $5(4c - 1) = -7(9 + 4c) + 8 - 2c$

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29.  $3(5 - 6y) - 2(2y + 3) = -7(y + 18)$

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30.  $-(k + 11) = 8(k + 4) - 2(3k - 4)$

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