

Distributive property — ANSWER KEY

Solve. Distribute first, then collect like terms.

1. $-5(x - 7) = -x + 31$

$x = \underline{\quad 1 \quad}$

2. $-3(k - 8) = 4k - 32$

$k = \underline{\quad 8 \quad}$

3. $6(t + 7) = 5t + 43$

$t = \underline{\quad 1 \quad}$

4. $-2(k - 8) + 14 = 50$

$k = \underline{\quad -10 \quad}$

5. $2(y - 4) - 8 = -2$

$y = \underline{\quad 7 \quad}$

6. $-4(x + 1) + 1 = 17$

$x = \underline{\quad -5 \quad}$

7. $2(y + 8) = 5y + 31$

$y = \underline{\quad -5 \quad}$

8. $5(m + 7) = 2m + 38$

$m = \underline{\quad 1 \quad}$

9. $5(t + 5) = 6t + 15$

$t = \underline{\quad 10 \quad}$

10. $4(y + 5) + 8 = 44$

$y = \underline{\quad 4 \quad}$

11. $5(k + 5) = k + 45$

$k = \underline{\quad 5 \quad}$

12. $-4(t - 1) + 15 = -1$

$t = \underline{\quad 5 \quad}$