

Math 8 Honors 2025
HW Ch2.4B Solv Eqn w/ Brackets

Name _____

Date _____

Solve.

1. $4(y + 8) = 7(y + 2)$

2. $2(3u + 10) = 5(4 - 2u)$

3. $-5(6 - r) = 3(9r - 2)$

4. $8(5 - 3r) = -4(6r - 10)$

5. $3(x + 6) + 2x - 6 = 8x - 2(2x - 4)$

6. $3(2k - 4) + 3 = -5k - 2(k + 4)$

7. $-\frac{3}{5}(5 - 10k) = \frac{3}{4}(24k + 4)$

8. $\frac{1}{6}(12z - 42) = -\frac{3}{4}(4 - 16z)$

9. $\frac{2}{3}(3m + 3) = \frac{1}{4}(4m + 28)$

10. $-\frac{4}{3}w + 2 = 14 - \frac{1}{3}w$

$$11. \quad \frac{6(3-2m)}{5} = m + 4$$

$$12. \quad 9r + 2 = \frac{7(r-5)}{3}$$

$$13. \quad 8 - 3y = \frac{2(4y+7)}{5}$$

$$14. \quad -\frac{1}{2}(4w+6) = \frac{1}{3}(9-3w)$$

$$15. \quad \frac{3}{2}(8x+10) - \frac{3}{5}(10x-5) = 0$$

$$16. \quad \frac{2}{3}(12p-9) = \frac{2}{7}(7p+14)$$

$$17. \quad \frac{4}{5}(30-15m) = \frac{3}{2}(6m+28)$$

$$18. \quad \frac{3}{4}(8z-12) = \frac{1}{6}(36z+12)$$

$$19. \quad \frac{5}{2}(2c + 18) = \frac{1}{5}(25c + 30)$$

$$20. \quad \frac{4}{3}(12d + 36) - \frac{1}{2}(96 + 32d) = 0$$

$$21. \quad \frac{1}{7}(49 - 14x) = -\frac{1}{6}(12x - 42)$$

$$22. \quad 5x - (x + 4) = 5 - 2[3x - 2(x + 8)]$$

$$23. \quad 3(2a - 1) + 4 = 3a - 7[2(3a - 1) - (-6)]$$

$$24. \quad 9n + 4[3n - 4(2n - 3)] = 2 - 3(2n + 4)$$

$$25. \quad 3(m + 2) + 5m = -3[(4m + 3)3 + 5] + 2m$$

$$26. \quad 5k + 2[-4(k + 3) - k] = 4 - (2k + 3)$$

$$27. \quad 6[2(-5y - 3) + 1] - 15y = 33 + 3[7 - 2(8y + 5)]$$

$$28. \quad 4 - 8[2(x - 3) - (-2x)] = 5[9 - 2(3x + 1)] + 7x$$

$$29. \quad 3[4(2r - 7) - r] + 3r = 2 + 2[8 + 3(2r - 1)]$$

$$30. \quad 5 + 2[3(2w - 5) - (-4w)] = -3[4 - 5(w - 1)] + 2w$$

Answer List

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|----------------------|---------------------|----------------------|
| 1. 6 | 2. 0 | 3. $-\frac{12}{11}$ |
| 4. $\mathbb{R}$ | 5. -4 | 6. $\frac{1}{13}$ |
| 7. $-\frac{1}{2}$ | 8. $-\frac{2}{5}$ | 9. 5 |
| 10. -12 | 11. $-\frac{2}{17}$ | 12. $-\frac{41}{20}$ |
| 13. $\frac{26}{23}$ | 14. -6 | 15. -3 |
| 16. $\frac{5}{3}$ | 17. $\frac{6}{7}$ | 18. $\emptyset$ |
| 19. $\emptyset$ | 20. $\mathbb{R}$ | 21. $\mathbb{R}$ |
| 22. $\frac{41}{6}$ | 23. $-\frac{3}{5}$ | 24. $\frac{58}{5}$ |
| 25. $-\frac{13}{14}$ | 26. $-\frac{25}{3}$ | 27. -2 |
| 28. $\frac{17}{9}$ | 29. 8 | 30. $-\frac{2}{5}$ |

Catalog List

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|----------------|----------------|----------------|
| 1. ALG GF 89 | 2. ALG GF 94 | 3. ALG GF 100 |
| 4. ALG GF 107 | 5. ALG GF 115 | 6. ALG GF 120 |
| 7. ALG GF 131 | 8. ALG GF 134 | 9. ALG GF 135 |
| 10. ALG GF 144 | 11. ALG GF 166 | 12. ALG GF 167 |
| 13. ALG GF 168 | 14. ALG GG 1 | 15. ALG GG 2 |
| 16. ALG GG 3 | 17. ALG GG 4 | 18. ALG GG 5 |
| 19. ALG GG 6 | 20. ALG GG 7 | 21. ALG GG 8 |
| 22. ALG GG 28 | 23. ALG GG 29 | 24. ALG GG 30 |
| 25. ALG GG 31 | 26. ALG GG 32 | 27. ALG GG 33 |
| 28. ALG GG 34 | 29. ALG GG 35 | 30. ALG GG 36 |