

Math 8 Honors 2025
HW Ch2.3B Solving Basic Eqn

Name _____

Date _____

Solve.

1. $8 + 6x = 50$

2. $31 = -2s + 24$

3. $28 = -14u + 16$

4. $-15x - 11 = 22$

5. $19 = 10y - 16$

6. $-7 - (-12p) = 38$

7. $15x - (-33) = 27$

8. $-17 + 3b = -9$

9. $46 - 9s = 16$

10. $-30x - 28 = 20$

11. $28h - 15 = 15$

12. $-14d + 15 = 21$

13. $20 = \frac{4n}{7} + 8$

14. $\frac{14a}{9} - 17 = 18$

15. $15 = 7 + \frac{12z}{7}$

16. $0 = 10k - \frac{1}{5}$

17. $2z + 5 = \frac{9}{5}$

18. $\frac{1}{6} = 10w + \frac{5}{6}$

19. $-\frac{7}{10} = -\frac{17}{5} + 18x$

20. $6t - \frac{5}{6} = \frac{7}{15}$

21. $\frac{5}{9} = 14c - \frac{5}{12}$

22. $-4 - \frac{1}{2}y = \frac{7}{4}$

23. $-\frac{4x}{7} - \frac{11}{14} = \frac{5}{6}$

24. $\frac{1}{6}w + \frac{1}{18} = \frac{1}{4}$

25. $\frac{9d}{4} - \frac{3}{10} = -\frac{3}{5}$

26. $-2h - 0.3 = 1.4$

27. $-\frac{10}{11}w - -\frac{10}{3}$

28. $\frac{7}{3} = 4 + \frac{5c}{2}$

29. $\frac{x}{6} - \left(-\frac{17}{3}\right) = 8$

30. $-\frac{7}{2}y - 1 = -\frac{11}{4}$

31. $\frac{5}{6} = 10y + \frac{7}{2}$

32. $-\frac{9}{2} = \frac{3}{8} - 12n$

$$33. \quad \frac{3(c-19)}{5} = 0$$

$$34. \quad \frac{3(2k+3)}{5} = \frac{3}{5}$$

$$35. \quad \frac{10(1-p)}{3} = -\frac{4}{3}$$

$$36. \quad -\frac{9}{10} = \frac{-3(x+10)}{10}$$

$$37. \quad 36 - (5a + 19) = -3$$

$$38. \quad -8 - (12y + 2) = 17$$

$$39. \quad -19 - 6(w - 8) = 35$$

$$40. \quad 57 = 22 - 7(k + 3)$$

$$41. \quad 21m + 6(m - 2) = 12$$

$$42. \quad -11(4 - n) - n = -60$$

$$43. \quad 48 + 9(y - 5) = 48$$

$$44. \quad 6a + 2(4a + 1) = -5$$

$$45. \quad 5 = \frac{3}{4}(3k + 2) - 2k$$

$$46. \quad \frac{1}{5} + \frac{2}{5}(5 - 3a) = -3$$

$$47. \quad 6a + 2(4a + 1) = -5$$

$$48. \quad 6a + 2(4a + 1) = -5$$

$$49. \quad 6a + 2(4a + 1) = -5$$

$$50. \quad 6a + 2(4a + 1) = -5$$

Answer List

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|---------------------|---------------------|---------------------|
| 1. 7 | 2. $-\frac{7}{2}$ | 3. $-\frac{6}{7}$ |
| 4. $-\frac{11}{5}$ | 5. $\frac{7}{2}$ | 6. $\frac{15}{4}$ |
| 7. $-\frac{3}{5}$ | 8. $\frac{8}{3}$ | 9. $\frac{10}{3}$ |
| 10. $-\frac{8}{5}$ | 11. $\frac{15}{14}$ | 12. $-\frac{3}{7}$ |
| 13. 21 | 14. $\frac{45}{2}$ | 15. $\frac{14}{3}$ |
| 16. $\frac{1}{50}$ | 17. $-\frac{8}{5}$ | 18. $-\frac{1}{15}$ |
| 19. $\frac{3}{20}$ | 20. $\frac{13}{60}$ | 21. $\frac{5}{72}$ |
| 22. $-\frac{23}{2}$ | 23. $-\frac{17}{6}$ | 24. $\frac{7}{6}$ |
| 25. $-\frac{2}{15}$ | 26. -0.85 | 27. $\frac{11}{3}$ |
| 28. $-\frac{2}{3}$ | 29. 14 | 30. $\frac{1}{2}$ |
| 31. $-\frac{4}{15}$ | 32. $\frac{13}{32}$ | 33. 19 |
| 34. -1 | 35. $\frac{7}{5}$ | 36. -7 |
| 37. 4 | 38. $-\frac{9}{4}$ | 39. -1 |
| 40. -8 | 41. $\frac{8}{9}$ | 42. $-\frac{8}{5}$ |
| 43. 5 | 44. $-\frac{1}{2}$ | 45. 14 |
| 46. $\frac{13}{3}$ | 47. $-\frac{1}{2}$ | 48. $-\frac{1}{2}$ |
| 49. $-\frac{1}{2}$ | 50. $-\frac{1}{2}$ | |

Catalog List

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|----------------|----------------|----------------|
| 1. ALG GC 18 | 2. ALG GC 30 | 3. ALG GC 49 |
| 4. ALG GC 52 | 5. ALG GC 51 | 6. ALG GC 50 |
| 7. ALG GC 62 | 8. ALG GC 63 | 9. ALG GC 64 |
| 10. ALG GC 75 | 11. ALG GC 76 | 12. ALG GC 73 |
| 13. ALG GC 103 | 14. ALG GC 112 | 15. ALG GC 109 |
| 16. ALG GC 113 | 17. ALG GC 118 | 18. ALG GC 120 |
| 19. ALG GC 124 | 20. ALG GC 126 | 21. ALG GC 127 |
| 22. ALG GC 140 | 23. ALG GC 154 | 24. ALG GC 156 |
| 25. ALG GC 152 | 26. ALG GC 165 | 27. ALG GD 54 |
| 28. ALG GD 114 | 29. ALG GD 115 | 30. ALG GD 116 |
| 31. ALG GD 119 | 32. ALG GD 120 | 33. ALG GD 188 |
| 34. ALG GD 189 | 35. ALG GD 190 | 36. ALG GD 191 |
| 37. ALG GE 106 | 38. ALG GE 107 | 39. ALG GE 116 |
| 40. ALG GE 117 | 41. ALG GE 118 | 42. ALG GE 119 |
| 43. ALG GE 120 | 44. ALG GE 121 | 45. ALG GE 134 |
| 46. ALG GE 135 | 47. ALG GE 121 | 48. ALG GE 121 |
| 49. ALG GE 121 | 50. ALG GE 121 | |