

Solving Linear Equations

Chapter 2
Practice
Assignments

Intermediate ALGEBRA

Name: _____ HR: _____

Concept 1: Solve each equation.

1. $-17 = n + 2$

2. $p - 6 = -10$

3. $n - 15 = -35$

4. $-48 = -6m$

5. $-18r = 72$

6. $\frac{n}{10} = -5$

7. $x - 9 = -2$

8. $10 + \frac{x}{3} = 7$

9. $6 = 7 + \frac{v}{4}$

10. $9 + 9b = -81$

11. $8 = 10 + \frac{k}{4}$

12. $-4 = \frac{n}{3} - 10$

13. $39 = 2x + 9$

14. $67 = -10x + 7$

15. $1 + 7m = -125$

16. $161 = -1 + 9a$

Concept 2: Solve each equation.

17. $-2x + 5x = 15$

18. $10 = 3x - 8x$

19. $5p - 7p = 2$

20. $18 = -7x + x$

21. $-7(8 + 5m) = -21$

22. $66 = -4(5n + 3) - 6n$

23. $6(2 + 6r) - 6 = -66$

24. $-6(b + 3) - 3 = -21$

25. $-8(n + 3) - 6 = -38$

26. $-(-3x - 6) - (2 - 3x) = 16$

27. $77 = 5(v + 6) + 3(v + 5)$

28. $14 = 7(8 + 7n) + 6(-4n - 7)$

29. $-45 = -2(-5a - 2) - 7(-7a + 7)$

30. $6(4k + 8) - 8(7k - 7) = -56$

Concept 3: Solve each equation.

31. $-4 + 3n - 4n = n - 2$

32. $-2x - 8x = 4 - 8x$

33. $3v + 8 - 4 - 14 = -3 + 2v$

34. $1 + 3x - 4 = -8 + 2x$

35. $30 + 8n = 6(n + 4)$

36. $8(k + 4) - 6k = -8k - 38$

37. $-8(p + 4) = -21 + 3p$

38. $-4(6 + x) + 1 = 10 + 7x$

39. $34 - 5n = -3(6 - 7n)$

40. $-3(3r + 3) = -6(r + 7)$

41. $-6x - (-8x - 6) = -7(x + 3)$

42. $4(3b - 1) = b - 4(-4b - 4)$

43. $-4(n + 5) + 6(4n - 3) = 8n - 7n$

44. $-2(x + 4) = -3(x + 7)$

Concept 4: Find each equation.

45. $3a - 4 = -4a + 7a$

46. $8v + 3 = 1 + 8v$

47. $2 + n = n + 2$

48. $3 + 4x = 4x + 5$

49. $-6x + 6 = -6(x - 1)$

50. $6 - r = -(r - 6)$

51. $-8k + 35 = 8(-k + 5)$

52. $-4n - 2(n - 6) = 12 - 6n$

53. $3(2 + y6p) = 18p - 40$

54. $2(8m + 4) = 16m + 20$

55. $-1 + 6v = 6(v + 7)$

56. $-2(3m - 6) = -(6 + 6m)$

CHAPTER 2 PRACTICE TEST

Concept 1. Solve each equation.

1. $n + 12 = 9$

2. $-6m = 42$

3. $8 + \frac{x}{2} = 12$

4. $3 = 4 + \frac{n}{9}$

Concept 2. Solve each equation.

5. $-22 = -4r - 7r$

6. $-60 = -5(x + 6) - x$

7. $-(3 + 2n) - 4(8n + 5) = 11$

Concept 3. Solve each equation.

8. $-v - 7v = 2 + 4 - 2v - 5v$

9. $8x - 4 = 3(5x + 8)$

10. $-37 + x = -4x - 3(8x - 7)$

11. $-2(1 - 3a) = -4(a + 3)$

Concept 4. Solve each equation.

12. $8v + 1 = 1 + 8v$

13. $-3(1 + 5p) + 2(2 + 5p) = -5p + 8$