

Name: _____

Date: _____

Pre-Algebra (Solve for x)

Grades 6 – 8 • 50 questions • Show your work

1. $7x + 5 = -23$ $x =$ _____

2. $3x - 1 = -28$ $x =$ _____

3. $7x - 5 = 9$ $x =$ _____

4. $9x - 7 = 65$ $x =$ _____

5. $5x - 14 = -24$ $x =$ _____

6. $8x + 9 = -39$ $x =$ _____

7. $3x - 11 = -8$ $x =$ _____

8. $4x - 9 = -17$ $x =$ _____

9. $3x - 14 = -35$ $x =$ _____

10. $8x + 6 = 78$ $x =$ _____

11. $7x + 2 = 58$ $x =$ _____

12. $5x + 1 = -24$ $x =$ _____

13. $9x + 8 = -19$ $x =$ _____

14. $4x + 11 = 31$ $x =$ _____

15. $8x - 7 = 1$ $x =$ _____

16. $6x + 7 = 61$ $x =$ _____

17. $7x - 8 = -29$ $x =$ _____

18. $4x - 6 = 18$ $x =$ _____

19. $7x - 9 = -58$ $x =$ _____

20. $8x - 13 = -45$ $x =$ _____

21. $6x - 8 = -14$ $x =$ _____

22. $4x - 2 = 22$ $x =$ _____

23. $3x - 10 = -7$ $x =$ _____

24. $6x - 1 = -49$ $x =$ _____

25. $4x + 15 = -21$ $x =$ _____

26. $5x + 3 = -17$ $x =$ _____

27. $5x + 13 = 38$ $x =$ _____

28. $7x - 12 = 23$ $x =$ _____

29. $6x + 14 = -34$ $x =$ _____

30. $4x + 14 = -2$ $x =$ _____

31. $9x + 12 = -33$ $x =$ _____

32. $6x - 7 = -1$ $x =$ _____

33. $5x + 11 = 6$ $x =$ _____

34. $7x + 3 = 31$ $x =$ _____

35. $2x - 10 = -28$ $x =$ _____

36. $9x - 7 = -52$ $x =$ _____

37. $7x + 1 = 22$ $x =$ _____

38. $8x - 4 = 4$ $x =$ _____

39. $5x + 3 = 38$ $x =$ _____

40. $5x - 1 = 44$ $x =$ _____

41. $9x + 4 = 67$ $x =$ _____

42. $7x + 11 = 32$ $x =$ _____

43. $5x + 12 = 22$ $x =$ _____

44. $4x - 12 = 20$ $x =$ _____

45. $3x - 12 = -30$ $x =$ _____

46. $3x + 11 = 2$ $x =$ _____

47. $7x + 9 = -33$ $x =$ _____

48. $8x + 15 = 23$ $x =$ _____

49. $5x - 9 = -4$ $x =$ _____

50. $3x + 12 = 21$ $x =$ _____

Answer Key — Pre-Algebra (Solve for x)

1. -4

2. -9

3. 2

4. 8

5. -2

6. -6

7. 1

8. -2

9. -7

10. 9

11. 8

12. -5

13. -3

14. 5

15. 1

16. 9

17. -3

18. 6

19. -7

20. -4

21. -1

22. 6

23. 1

24. -8

25. -9

26. -4

27. 5

28. 5

29. -8

30. -4

31. -5

32. 1

33. -1

34. 4

35. -9

36. -5

37. 3

38. 1

39. 7

40. 9

41. 7

42. 3

43. 2

44. 8

45. -6

46. -3

47. -6

48. 1

49. 1

50. 3
