

Name: _____

Date: _____

Inequalities

Grades 6 – 8 • 50 questions • Show your work

1. Solve: $8x + 10 < -54$ _____

2. Solve: $3x + 10 < 13$ _____

3. Solve: $-5x - 3 > 32$ _____

4. Solve: $7x - 8 > 41$ _____

5. Solve: $-5x + 9 < -21$ _____

6. Solve: $2x - 12 \leq -10$ _____

7. Solve: $-3x - 9 \geq -12$ _____

8. Solve: $-4x + 9 \geq -7$ _____

9. Solve: $8x - 9 \leq 31$ _____

10. Solve: $2x - 9 \leq -21$ _____

11. Solve: $-6x - 10 \leq -58$ _____

12. Solve: $7x - 9 \geq -23$ _____

13. Solve: $7x + 8 > -34$ _____

14. Solve: $4x + 11 < -21$ _____

15. Solve: $-5x + 10 \leq -35$ _____

16. Solve: $-2x - 12 < -30$ _____

17. Solve: $6x + 10 > 16$ _____

18. Solve: $2x - 1 \leq -9$ _____

19. Solve: $6x - 8 \leq 46$ _____

20. Solve: $9x + 1 \leq 82$ _____

21. Solve: $5x - 9 \leq 36$ _____

22. Solve: $-9x + 3 \geq -60$ _____

23. Solve: $8x + 3 > -29$ _____

24. Solve: $9x + 5 > -58$ _____

25. Solve: $2x - 3 \leq -13$ _____

26. Solve: $7x + 3 \geq -18$ _____

27. Solve: $8x - 11 > -43$ _____

29. Solve: $9x + 7 \leq 52$ _____

31. Solve: $3x + 5 < 14$ _____

33. Solve: $7x + 7 \leq -21$ _____

35. Solve: $8x + 9 \leq -7$ _____

37. Solve: $6x - 12 \geq -48$ _____

39. Solve: $7x + 5 < 54$ _____

41. Solve: $2x - 6 \leq -4$ _____

43. Solve: $7x + 10 < -53$ _____

45. Solve: $-8x + 12 < 60$ _____

47. Solve: $7x - 1 > -15$ _____

49. Solve: $6x - 8 > 46$ _____

28. Solve: $-3x + 5 \leq -19$ _____

30. Solve: $-4x + 4 \leq 8$ _____

32. Solve: $-5x - 10 < -50$ _____

34. Solve: $-2x + 7 \leq -3$ _____

36. Solve: $4x + 12 > 32$ _____

38. Solve: $9x + 11 \leq -52$ _____

40. Solve: $8x - 1 > 71$ _____

42. Solve: $5x + 5 > -25$ _____

44. Solve: $2x - 4 \leq -16$ _____

46. Solve: $-6x - 4 \leq -10$ _____

48. Solve: $-3x + 5 > -19$ _____

50. Solve: $8x - 11 < 21$ _____

Answer Key – Inequalities

1. $x < -8$

2. $x < 1$

3. $x < -7$

4. $x > 7$

5. $x > 6$

6. $x \leq 1$

7. $x \leq 1$

8. $x \leq 4$

9. $x \leq 5$

10. $x \leq -6$

11. $x \geq 8$

12. $x \geq -2$

13. $x > -6$

14. $x < -8$

15. $x \geq 9$

16. $x > 9$

17. $x > 1$

18. $x \leq -4$

19. $x \leq 9$

20. $x \leq 9$

21. $x \leq 9$

22. $x \leq 7$

23. $x > -4$

24. $x > -7$

25. $x \leq -5$

26. $x \geq -3$

27. $x > -4$

28. $x \geq 8$

29. $x \leq 5$

30. $x \geq -1$

31. $x < 3$

32. $x > 8$

33. $x \leq -4$

34. $x \geq 5$

35. $x \leq -2$

36. $x > 5$

37. $x \geq -6$

38. $x \leq -7$

39. $x < 7$

40. $x > 9$

41. $x \leq 1$

42. $x > -6$

43. $x < -9$

44. $x \leq -6$

45. $x > -6$

46. $x \geq 1$

47. $x > -2$

48. $x < 8$

49. $x > 9$

50. $x < 4$
