

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Plotting inequalities on a number line

1. Plot $x > 3$.
2. Plot $x < -2$.
3. Plot $y \geq 0$.
4. Plot $t < 5$.
5. Plot $n \leq -4$.
6. Plot $p < -1$.
7. Plot $z \geq 6$.
8. Plot $w \leq 1$.
9. Plot $a > -3$.
10. Plot $b < 0$.

Testing solutions to inequalities

11. Is $x = 4$ a solution to $x + 2 < 7$?
12. Is $x = -3$ a solution to $x - 1 \leq -5$?
13. Is $x = 2$ a solution to $3x \geq 6$?
14. Is $x = -1$ a solution to $-2x > 2$?
15. Is $x = 0$ a solution to $x + 5 \leq 5$?
16. Is $x = 5$ a solution to $\frac{x}{2} < 3$?
17. Is $x = -4$ a solution to $x + 3 \leq -1$?
18. Is $x = 3$ a solution to $-x < -2$?
19. Is $x = 1$ a solution to $4x \leq 5$?
20. Is $x = -5$ a solution to $x/(-5) > 1$?

One-step inequalities — solve

21. Solve $x + 5 > 9$.
22. Solve $m - 3 \leq 4$.
23. Solve $4x < 12$.
24. Solve $-3y \leq -9$.
25. Solve $\frac{x}{2} \leq 4$.
26. Solve $k + 7 < 12$.
27. Solve $5a \leq 20$.
28. Solve $-2b < 6$.
29. Solve $c - 8 > -2$.



Math Worksheet for 7th Grade

One-step inequalities

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30. Solve $9x = 27$.

31. Solve $-x < 4$.

32. Solve $3 + n = 3$.

33. Solve $6p > 0$.

34. Solve $-4q = 8$.

35. Solve $\frac{r}{3} < 5$.

One-step inequalities focusing on $-5c$

36. Solve $-5c = 15$.

37. Solve $-5c < 0$.

38. Solve $-5c = -25$.

39. Solve $-5c > 5$.

40. Solve $-5c = -10$.

41. Solve $-5c < 20$.

42. Solve $-5c = 0$.

One-step inequality word problems

43. To pass a quiz you need at least 40 points. You have 28 points. Let p be how many more points you need. Write and solve an inequality for p .

44. A container can hold at most 15 liters. It currently has 9 liters. Let x be how many more liters you can add. Write and solve an inequality for x .

45. A bookstore sold at least 50 books today. They sold 32 in the morning. Let b be how many books they must sell in the afternoon. Write and solve an inequality for b .

46. A video game should take less than 10 hours to finish. You've played 6 hours. Let h be how many more hours you can play. Write and solve an inequality for h .

47. A recipe needs 3 cups of sugar or less. You already added 1 cup. Let s be how many more cups you can add. Write and solve an inequality for s .

48. A bus can carry no more than 40 passengers. There are 37 passengers on board. Let x be how many more passengers can board. Write and solve an inequality for x .

49. You must spend at least \$25 to get free shipping. Your cart totals \$18. Let m be how many more dollars to add. Write and solve an inequality for m .

50. A student needs more than 70 points to get an A. She has 68 points. Let y be how many more points she needs. Write and solve an inequality for y .