

1. $t > 7$ 2. $x > -7$ 3. $x > -2$
4. $m > 4$ 5. $x \leq 3$ 6. $m < -9$
7. $k \leq -8$ 8. $m > 4$ 9. $x < 7$
10. $y > -9$ 11. $t \geq -3$ 12. $x > 0$
13. at least 72 hours
14. $x < -18$ 15. $m \leq -108$ 16. $x \geq 15$
17. $y > 12$ 18. $r < -8$ 19. $q > -18$
20. $v > 120$ 21. $b \geq 12$ 22. $v > -45$
23. $x \leq 48$ 24. $x > 0$ 25. $h < 80$
26. unchanged 27. unchanged
28. reverses 29. reverses
30. $x > 4$ 31. $r \leq -21$ 32. $x \geq -6$
33. $b \geq -93$ 34. $g \geq 21$ 35. $b > -18$
36. $x > -2$ 37. $x \geq 4$
38. 1,200 kilowatt-hours
39. You reversed the inequality symbol when dividing each side by a positive number.
40. B 41. $7t \leq 21; t \leq 3$
42. $\frac{b}{4} \geq 3; b \geq 12$ 43. $\frac{v}{-5} < 9; v > -45$
44. Answers may vary. Sample: Multiplying each side by zero can give the inequality $0 < 0$, which is false. Division by zero is not defined.
45. You have to divide by -4 instead of 4 . The direction of the inequality sign is different when you solve each inequality.

- 46. Div. Prop. of Ineq.
Simplify.
- 47. Div. Prop. of Ineq.
Simplify.
- 48. Mult. Prop. of Ineq.
Simplify.
- 49. Answers may vary. Sample: Bill needs at most \$15 for the day. How many five-dollar bills does he need?
- 50. 4 teachers