



## Practice

### 6.2 Multistep Inequalities

Write an inequality that corresponds to each statement.

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|---|--|
| 1. $x$ is less than $y$ . _____           | 2. $W$ is greater than $B$ . _____             |
| 3. $a$ is less than or equal to 10. _____ | 4. $x$ is greater than or equal to 100. _____  |
| 5. $r$ is positive. _____                 | 6. $q$ is nonnegative. _____                   |
| 7. $M$ cannot equal 0. _____              | 8. $V$ is between 4.5 and 4.6 inclusive. _____ |

Tell whether each statement is true or false.

- |  |                          |                          |
|--|--------------------------|--------------------------|
| 9. $6.9 \geq 6.9$ _____                  | 10. $9.66 > 9.606$ _____ | 11. $10.2 < 10.02$ _____ |
| 12. $\frac{1}{2} \leq \frac{1}{3}$ _____ | 13. $8.91 > 8.901$ _____ | 14. $0 > -1$ _____       |
| 15. $\frac{1}{7} < \frac{1}{5}$ _____    | 16. $-5 < -2$ _____      | 17. $-6 \geq -4$ _____   |

Solve each inequality. *AND GRAPH THE SOLUTIONS*

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| 18. $x + 3 < 4$ _____                | 19. $m - 10 \geq 50$ _____       |
| 20. $T - 5 \leq 8$ _____             | 21. $7 - N \geq 16$ _____        |
| 22. $6x < -12$ _____                 | 23. $x + 12 > 10$ _____          |
| 24. $3.5b > -7$ _____                | 25. $2x \geq 6$ _____            |
| 26. $\frac{n}{5} > 20$ _____         | 27. $\frac{r}{-2} \leq 7$ _____  |
| 28. $-5t \leq 45$ _____              | 29. $\frac{x}{4} + 7 < 10$ _____ |
| 30. $\frac{-x}{5} + 4 \geq -1$ _____ | 31. $6x - 2 \leq 4$ _____        |
| 32. $x + 3 < 8 - x$ _____            | 33. $x - 1 < -5$ _____           |
| 34. $-5x \geq 2x - 6$ _____          | 35. $7 - x \leq 3$ _____         |
| 36. $16 + \frac{m}{2} < 9$ _____     | 37. $14 > 4 - \frac{j}{3}$ _____ |