

Practice B**Solve the inequality.**

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|-----------------------|-----------------------------|-------------------------|
| 1. $ x + 2 < 5$ | 2. $ x + 4 > 9$ | 3. $ x - 3 \leq 1$ |
| 6. $ 3x - 6 < 3$ | 5. $ 2x + 1 > 5$ | 6. $ 2x - 3 \leq 7$ |
| 7. $ x - 3.2 \leq 8$ | 8. $ 3x + 2 - 1 > 9$ | 9. $ x - 4 + 5 \leq 7$ |
| 10. $ 2x - 3 > 9$ | 11. $ 4x - 12 + 2 \geq 13$ | 12. $ x + 3 + 1 > 10$ |

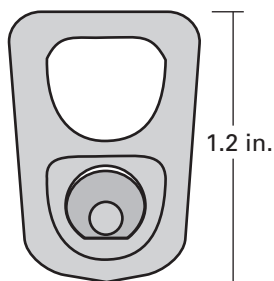
Solve the inequality. Then graph the solution.

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|---|---------------------|-----------------------------------|
| 13. $ x + 1 \leq 27$ | 14. $ x - 8 > 14$ | 15. $ 6 - 5x < 9$ |
| 16. $ x - 3 \leq 6$ | 17. $ 11 - x < 20$ | 18. $ 7x + 3 < 11$ |
| 19. $ \frac{1}{4}x - \frac{1}{3} \leq \frac{1}{3}$ | 20. $ 7 + 8x > 5$ | 21. $ 18 + \frac{1}{2}x \geq 10$ |

Solve the inequality. Then graph the solution.

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|----------------------|-----------------------|----------------------|
| 22. $ x + 7 \geq 1$ | 23. $ x - 4 < 6$ | 24. $ x - 6 \geq 2$ |
| 25. $ 4x - 5 < 11$ | 26. $ 3x + 2 \leq 8$ | 27. $ 5x + 4 > 0$ |

28. **Tool and Die** A tool and die shop makes a metal pull tab for a pop can. The absolute value inequality $|\ell - 1.2| \leq 0.002$ represents the possible lengths of the tab (in inches) which are considered acceptable.



- a. Is a tab that is 1.197 inches long acceptable? a tab that is 1.201 inches long?
- b. Solve the absolute value inequality to find the possible tab lengths which are considered acceptable.