

Name: _____ Date: _____ Period: _____

Solve Multi-Step Inequalities –

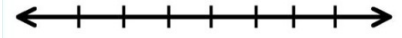
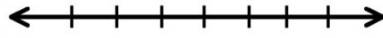
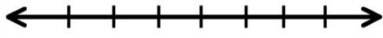
6.3 Practice 1

Solve each inequality. Then check your solution, and graph it on a number line.

1. $t - 12 \geq 16$

2. $n - 12 < 6$

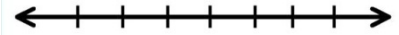
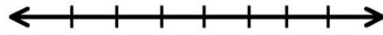
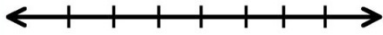
3. $6 \leq g - 3$



4. $n - 8 < -13$

5. $-12 > -12 + y$

6. $-6 > s - 8$



Solve each inequality. Then check your solution.

7. $-3x \leq 8 - 4x$

8. $0.6n \geq 12 - 0.4n$

9. $-8k - 12 < -9k$

10. $-y - 10 > 15 - 2y$

11. $z - \frac{1}{3} \leq \frac{4}{3}$

12. $-2b > -4 - 3b$

Define a variable, write an inequality, and solve each problem. Then check your solution.

13. A number decreased by 4 is less than 14.

14. The difference of two numbers is more than 12, and one of the numbers is 3.

15. Forty is no greater than the difference of a number and 2.

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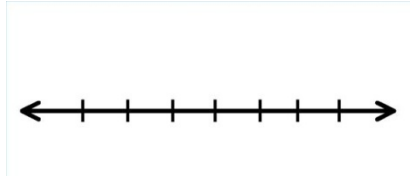
6.3 Practice 1

Solve each inequality. Then check your solution, and graph it on the number line.

1. $t + 12 \geq 8$

2. $n + 12 > -12$

3. $16 \leq h + 9$



4. $y + 4 > -2$

5. $3r + 6 > 4r$

6. $\frac{3}{2}q - 5 \geq \frac{1}{2}q$



Solve each inequality. Then check your solution.

7. $4p \geq 3p + 0.7$

8. $r + \frac{1}{4} > \frac{3}{8}$

9. $9k + 12 > 8k$

10. $-1.2 > 2.4 + y$

11. $4y < 5y + 14$

12. $3n + 17 < 4n$

Define a variable, write an inequality, and solve each problem. Then check your solution.

13. The sum of a number and 8 is less than 12.

14. The sum of two numbers is at most 6, and one of the numbers is -2 .

15. The sum of a number and 6 is greater than or equal to -4 .