

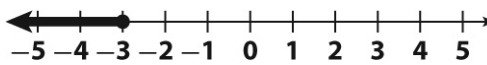
LESSON
7-1

Writing and Solving One-Step Inequalities

Practice and Problem Solving: D

Solve each inequality. Graph and check the solution. The first one is done for you. **SHOW YOUR STEP!**

1. $-2a \geq 6$ $a \leq -3$ _____



Check: Think:

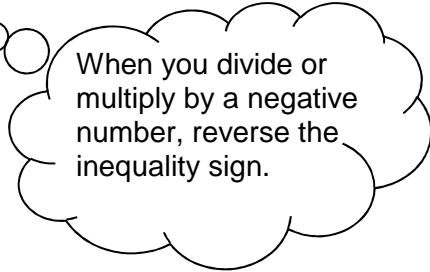
-5 is one solution because $-5 \leq -3$.

Substitute -5 for a .

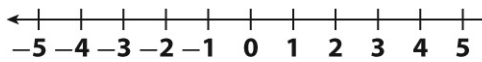
$(-2)(-5) \geq 6$

$10 \geq 6$ ✓

$\frac{a}{-2} \leq \frac{6}{-2}$
 $a \leq -3$

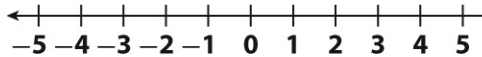


2. $1 > n + 4$ _____



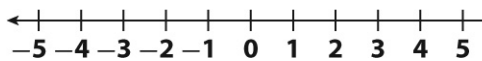
Check:

3. $b - 2 \geq -2$ _____



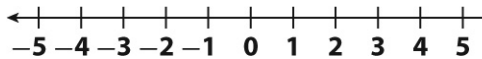
Check:

4. $\frac{e}{2} < -1$ _____



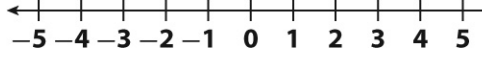
Check:

5. $t + 2 \geq 3$ _____



Check:

6. $\frac{c}{-2} < -2$ _____



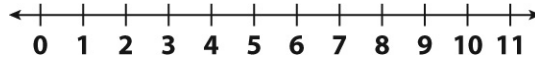
Check:

Writing and Solving One-Step Inequalities

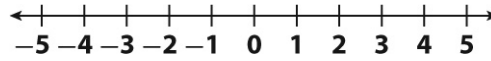
Practice and Problem Solving: A/B

Solve each inequality. Graph and check the solution. **SHOW YOUR STEP!**

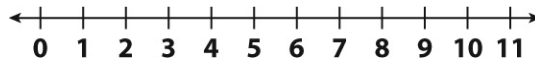
1. $\frac{e}{2} < 3$ _____



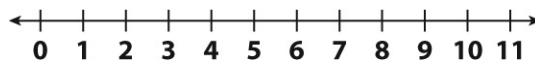
2. $n - 1 > 3$ _____



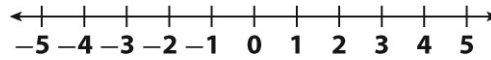
3. $5 < 3 + w$ _____



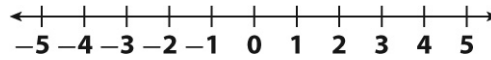
4. $8 \leq 2m$ _____



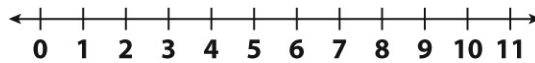
5. $r - 4 < 1$ _____



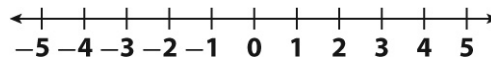
6. $2 \leq -1t$ _____



7. $2 \geq s - 2$ _____



8. $2 \geq 5 + p$ _____



Solve each inequality. **SHOW YOUR STEP!**

9. $\frac{1}{5} \leq \frac{x}{15}$ _____

10. $9 > -r$ _____

11. $-2 + b < 3$ _____

12. $70 - a \geq 25$ _____

Write an inequality for each problem. Then solve.

13. Arthur earned \$136 in three weeks. He goes back to school in one more week. He needs at least \$189 to buy the new coat that he wants for school. **Write and solve an inequality** to find how much Arthur must earn in the next week?

14. Marna is playing a game where you score -5 points each time you guess the correct answer. The goal is to get the lowest score. To win the game, Marna must have a score less than -80 points. **Write and solve an inequality** to find how many correct answers Marna needs to win the game?
