

Name: _____

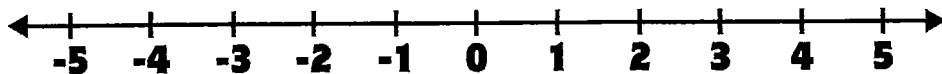
Date: _____

Solving Inequalities Using Addition & Subtraction

1. To solve and graph an inequality, use _____ operations to isolate the variable, just as you would solve an _____.
2. The inverse operation of _____ is subtraction.
3. The inverse operation of _____ is addition.
4. When graphing an inequality where the number is a solution, use a _____ circle.
5. When graphing an inequality where the number is not a solution, use an _____ circle.
6. The _____ states that when you add the same number to each side of an inequality the inequality remains true.
7. The _____ states that when you subtract the same number to each side of an inequality the inequality remains true.
8. To check your inequality solution set, choose any number that is _____ in.
9. Then _____ the inequality with that number to make sure the inequality is true.
10. Solve and graph the inequality. Don't forget to check your solution.

$$g + 2 < 5$$

Check:



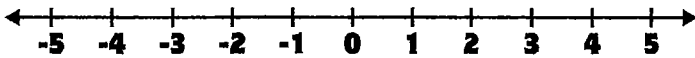
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Practice: Solving Inequalities Using Addition & Subtraction

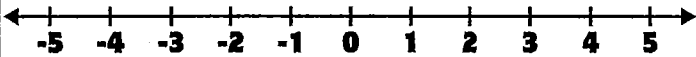
#1 Solve and graph the inequality:
 $x - 1 \leq 5$

Check:



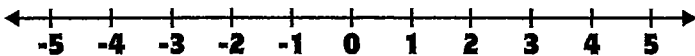
#2 Solve and graph the inequality:
 $x + 3 \geq 0$

Check:



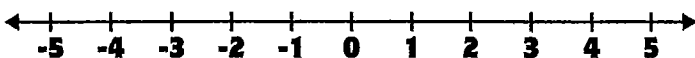
#3 Solve and graph the inequality:
 $6 + x < 8$

Check:



#4 Solve and graph the inequality:
 $1 < x - 3$

Check:

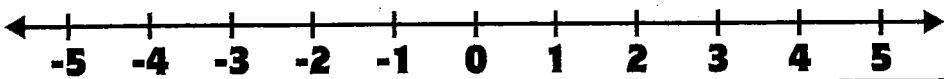
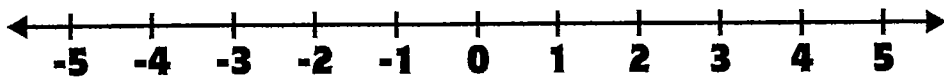


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Solving Inequalities Using Multiplication & Division

1. To solve and graph an inequality, use _____ operations to isolate the variable, just as you would solve an _____.
2. The inverse operation of _____ is division.
3. The inverse operation of _____ is multiplication.
4. When graphing an inequality where the number is a solution, use a _____ circle.
5. When graphing an inequality where the number is not a solution, use an _____ circle.
6. The _____ states that when you multiply each side of an inequality by the same POSITIVE number, the inequality remains true.
7. The _____ states that when you divide each side of an inequality by the same POSITIVE number, the inequality remains true.
8. To check your inequality solution set, choose any number that is _____ in.
9. Then _____ the inequality with that number to make sure the inequality is true.
10. Solve and graph each inequality. Don't forget to check your solution.

$2g \leq 10$ 	Check:
$h \div 3 > 1$ 	Check:

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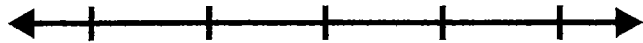
Practice: Solving Inequalities Using Multiplication & Division

#1 Solve and graph the inequality:
 $8g \geq 72$



Check:

#2 Solve and graph the inequality:
 $w \div 4 > 12$



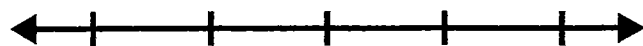
Check:

#3 Solve and graph the inequality:
 $12 > 4x$



Check:

#4 Solve and graph the inequality:
 $d \div 6 \leq 66$



Check: