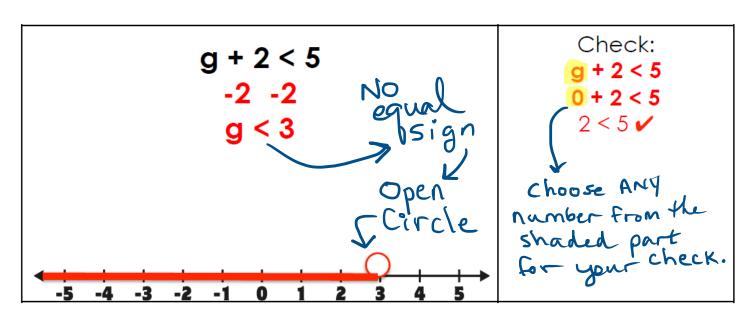
Name:	Date:	Answer Key

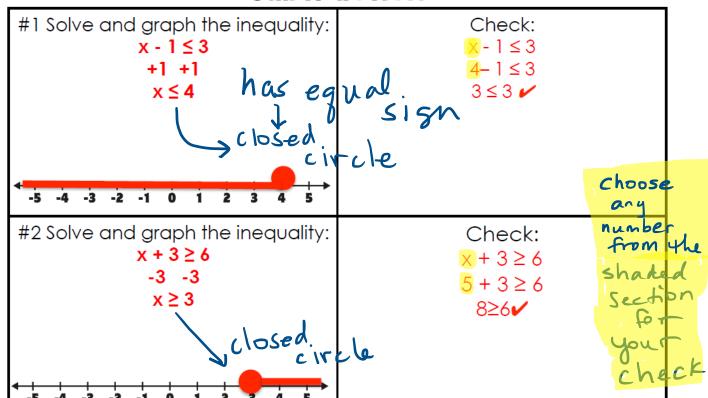
Solving Inequalities Using Addition & Subtraction

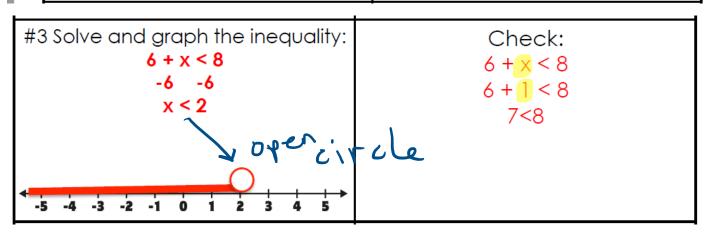
- 1. To solve and graph an inequality, use inverse operations to isolate the variable, just as you would solve an equation.
- 2. The inverse operation of addition is subtraction.
- 3. The inverse operation of subtraction is addition.
- 4. When graphing an inequality where the number is a solution, use a closed circle.
- 5. When graphing an inequality where the number is not a solution, use an open circle.
- 6. The Addition Property of Inequality states that when you add the same number to each side of an inequality the inequality remains true.
- 7. The Subtraction Property of Inequality 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 shaded in.
- 9. Then evaluate the inequality with that number to make sure the inequality is true.
- Solve and graph the inequality. Don't forget to check your solution.

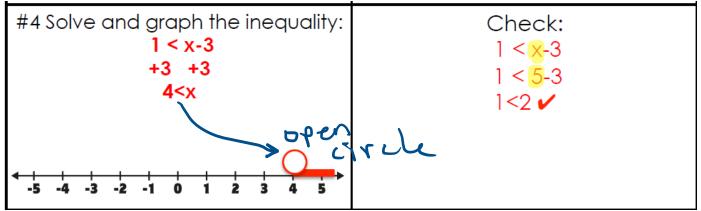


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Practice: Solving Inequalities Using Addition & Subtraction







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Solving Inequalities Using Multiplication & Division

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

2g ≤ 10 ÷2 ÷2 g≤ 5	Check: 2g ≤ 10 2(4) ≤ 10 8≤10✓
-5 -4 -3 -2 -1 0 1 2 3 4 5	
h ÷ 3 > 1 X3 x3 h > 3	Check: h ÷ 3 > 1 6 ÷ 3 > 1
-5 -4 -3 -2 -1 0 1 2 3 4 5	2 > 1 🗸

Name:

Date: Answer Key

Practice: Solving Inequalities Using Multiplication & Division

#1 Solve and graph the inequality:

g≥9

8g ≥ 72 8x9 ≥ 72 72≥72 ✓

#2 Solve and graph the inequality:

Check:

$$w \div 4 > 12$$



#3 Solve and graph the inequality:

Check:

$$12 > 4 \times 2$$



#4 Solve and graph the inequality:

Check:

