

Name _____ Date _____

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Solving Inequalities**Lesson Objectives**

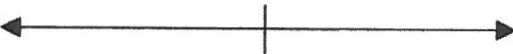
to solve and graph simple inequalities using the addition and substitution properties

Inequalities

1. Draw a number line showing all numbers greater than 6.



2. Draw a number line showing all numbers less than or equal to 4.



3. Is 3 a solution of
- $x + 4 > 10$
- ? Justify your answer.

4. Choose which values of
- x
- would be solutions of
- $2x + 4 < 7$
- .

a) 1.7, 1, 0, 2 b) -1, 0, 1.2, 1.7 c) -2, -1, 0, 1.2 d) 1.5, 1.7, 2, 3

5. Choose which values of
- x
- would be solutions of
- $3x - 4 \geq -2$
- .

a) -2, -1, 0, 3 b) $\frac{2}{3}$, 1.2, 1.7, 3 c) 0, 1.2, 2, 3 d) $\frac{1}{2}$, 1.7, 2, 3**Solve and Graph each inequality. Show All Work.**

6. $x \geq 4 - x$



7. $x + 3 \leq -x$



8. $x - 5 > -11 + 2x$



9. $2x + 8 < 3x - 4$

