

guided notes

NAME _____

DATE _____

Module 5 Solving Linear Inequalities of One Variable
Lesson 1 Solving Linear Inequalities by Inspection

Lesson Objectives

- Solve a linear inequality by inspection.
- Write the solution to an inequality in proper notation.
- Graph the solution to an inequality on a number line.
- Check the solution to an inequality.

An _____ is a statement formed by placing an inequality symbol between two expressions.

Inequality Symbols

- _____ is greater than
- _____ is greater than or equal to
- _____ is less than
- _____ is less than or equal to
- _____ is not equal to

A _____ of an equation is a number which, when substituted for the variable, produces a true statement.

If a problem starts out as an equation, the solution is given by another _____.

Draw an _____ circle around a point on the number line to indicate that this point is not a solution to the inequality.

Draw a shaded arrow to the _____ of a point on the number line to indicate that every number greater than this point is a solution to the inequality.

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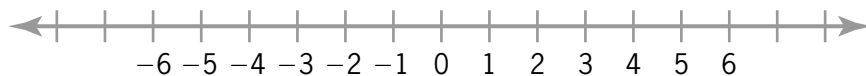


Draw a _____ circle around a point on the number line to indicate that this point is a solution to the inequality.

Draw a shaded arrow to the _____ of a point on the number line to indicate that every number less than this point is a solution to the inequality.

1 Solve: $x + 4 > 0$

Solution: _____



2 Solve: $x + 2 \leq 0$

Solution: _____

