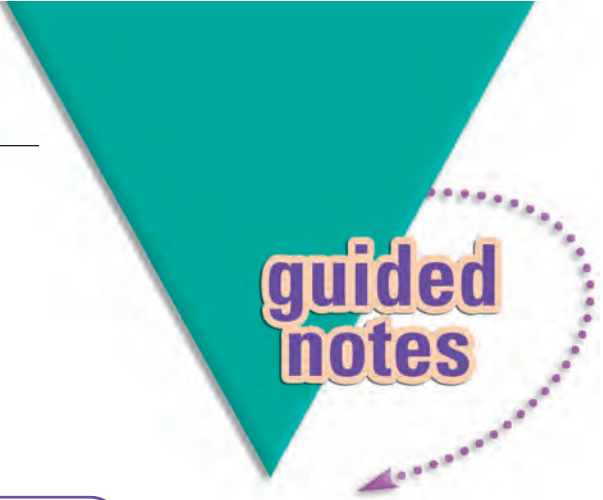NAME

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 **inequality** _____ 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 **solution** _____ 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

equation _____ .

Draw an **open** _____ 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 **right** _____ of a point on the number

line to indicate that every number greater than this point is a solution to the

inequality.

Draw a __closed__ 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 __left__ 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: __$x > -4$__

2 Solve: $x + 2 \leq 0$

Solution: __$x \leq -2$__

monotype composition
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