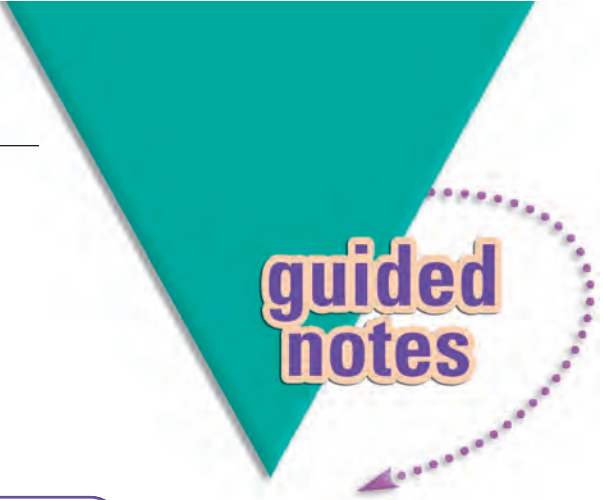

 NAME _____

Module 5 Solving Linear Inequalities of One Variable
Lesson 7 Solving Problems Using Inequalities of One Variable



**guided
notes**

Lesson Objective

- Write and solve inequalities of one variable to solve problems.

Fill in the steps.

Problem Solving Using Inequalities

Read the problem.

Determine what to find.

Define variables.

Write and solve an inequality.

- Todd needs a total score of at least 46 to win a tournament with 5 events. In his first 4 events he earned 36.6 points. What is the minimum Todd must score in his 5th event to win the tournament? **$s \geq 9.4$ Todd must score a minimum of 9.4 in his 5th event.**

- Greta earns a base pay of \$500 per week and a commission of 10% of all sales. If Greta needs to earn more than \$675 each week to pay her bills, how many dollars worth of merchandise does Greta need to sell each week? **$s > 1,750$ Greta needs to sell more than \$1,750 worth of merchandise.**

- The sum of two consecutive odd integers is less than 66. What are the largest possible values for the integers? **The largest possible values of the two consecutive odd integers are 31 and 33.**

