

Name: _____ Date: _____

Writing Equations and Inequalities Homework

Lucy has been assigned the following linear equations and inequality word problems. Help her solve each problem below by using a five step plan.

- Drawing a Sketch (if necessary)
 - Defining a Variable
 - Setting up an equation or inequality
 - Solve the equation or inequality
 - Make sure you answer the question
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1. You are trying to save \$20 a week to buy a new CD player. During the last 4 weeks you have saved \$35, \$15, \$10, and \$12. How much do you need to save this week to average \$20 for the 5 weeks?

2. Maurice's Music Store has selected CDs on sale for \$9.50 each plus 5.75% sales tax. You have \$48 you can spend on CDs. Write an inequality that shows how many CDs you can buy. Find the largest whole number that is a solution.

3. When 6 is added to four times a number, the result is 50. Find the number.

4. On an algebra test, the highest grade was 42 points higher than the lowest grade. The sum of the two grades was 138. Find the lowest grade.

