Name_____

Inequalities Project

Objective: To demonstrate a good working understanding of inequalities and their applications through three tasks:

1. Create a logic problem using inequalities.
2. Complete the "Alternative Assessment" sheet.
3. Solve someone else's logic problem.

Requirements for logic problem:

- A story in words with clues so that another student can figure out the answer.
- At least 5 clues that are in sentence form but describe inequalities.
    - At least one clue must describe an absolute value inequality.
    - At least one clue must require 2 steps to solve the inequality.
- Answer sheet on separate paper where work is shown line-by-line.

Important Dates

Project Assigned	Friday, October 14
Logic Problem Due	Friday, October 21
Alternative Assessment Due	Friday, October 21
Logic Problem to Solve handed to you	Monday, October 24
Solved Logic Problem Due	Wednesday, October 26

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Inequalities Project Rubric

Criteria	Beginning	Approaching	Meeting	Exceeding
Logic Problem Creation	Problem has 3 clues or less. Both the absolute value inequality and the inequality requiring two steps to solve are missing. Problem can not be solved. Answer sheet is missing or has several errors.	Problem only has 4 clues with inequalities. Problem has more than 10 clues. The absolute value inequality or the inequality requiring two steps to solve is missing. Problem doesn't quite have a solution (but is close to having one). Answer sheet has one or two small errors.	Problem has at least 5 clues with inequalities. Problem has no more than 10 clues. At least one clue has an absolute value inequality. At least one clue is an inequality requiring two steps to solve. Problem has a solution. Answer sheet is correct.	Problem has at least 7 but no more than 10 clues. More than one clue has an absolute value inequality. More than one clue requires two steps to solve the inequality. Answer sheet shows all work, step-by-step. Problem is creative and fun to work.
Alternative Assessment	Several problems are not answered. There are several mistakes. Much work is missing.	One or two problems are not answered. There are a couple of mistakes. Some work is missing.	All problems are answered correctly. Work is shown.	Meeting plus: All work is neatly shown, step-by-step.
Logic Problem Solving	Many inequalities are missing. There are several mistakes in the work. Many inequalities are not solved.	Problem is not completely solved. Some inequalities or equations are missing. There are one or two mistakes in the work. Some inequalities are written but not solved.	Problem is solved correctly. An inequality or equation is written for each clue. Inequalities with absolute values or requiring steps to solve are solved correctly.	Meeting plus: All work is neatly shown, step-by-step.