Rewriting Equations and Formulas

Use after Lesson 3.3 Goal:

Goal: Rewrite literal equations and formulas.





3.4 Solving Inequalities Using Addition or Subtraction

Goal: Solve inequalities using addition or subtraction.

Vocabulary	
Inequality:	
Solution of an inequality:	
Equivalent inequalities:	

Example 1 Writing and Graphing an Inequality

Air Travel An airline allows passengers to carry on-board one piece of luggage. Luggage that exceeds 40 pounds cannot be carried on-board. Write an inequality that gives the weight of luggage that cannot be carried on-board.

Solution

Let *w* represent the weight of the luggage. Because the weight cannot exceed 40 pounds, the weight of luggage that cannot be carried on-board must be .

Answer: The inequality is . Draw the graph below.





