Content Standard	***MAFS.6.EE*** *Expressions and Equations* ***MAFS.6.EE.2*** *Reason about and solve one-variable equations and inequalities.* ***MAFS.6.EE.2.8*** Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.
Assessment Limits	Nonnegative rational numbers. Context in real-world items should be continuous or close to continuous.
Calculator	No
Acceptable Response Mechanisms	Equation Response Graphic Response — Drag and Drop Graphic Response — Hot Spot Matching Item Response Multiple Choice Response Multi-Select Response Natural Language Response
Context	Allowable

Example	
Context	Straightforward translation using easier words to translate such as less than, greater than, etc., with application context. An airport charges an extra fee for bags that weigh more than 50 lbs. Write an inequality that shows how much Michael's suitcase can weigh, x, without Michael needing to pay the extra fee.
Context easier	Have the student translate a graph into an inequality. The graph below shows the weights for bags in which an airport charges an extra fee. Write an inequality that shows how much Michael's suitcase can weigh, x, without Michael needing to pay the extra fee.
Context more difficult	Use words such as at least, a minimum, a maximum, etc., for the student to translate. An airport charges an extra fee for some bags. A bag can weigh a maximum of 50 lbs and not be charged a fee. Write an inequality that shows how much Michael's suitcase can weigh, x, without Michael needing to pay the extra fee.

Sample Item Stem	Response Mechanism	Notes, Comments
Translate the following sentence into an inequality. b is less than 50.	Equation Response	
For the inequality $x < 50$, will the value of x be greater or less than 50? Explain.	Multiple Choice Response Or	

	Proposition Response	
Graph the inequality $x < 50$.	Graphic Response	
An airport charges an additional fee for a piece of luggage that weighs more than 50 pounds. Write an inequality that shows the weight Michael's suitcase can be, x, without him having to pay the extra fee.	Equation Response	
The table shows the weight of luggage that belongs to passengers on an airplane and whether or not they were charged an additional fee by the airlines. Based on the table, graph the inequality that shows all luggage weights that require an additional fee.	Equation Response	