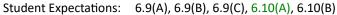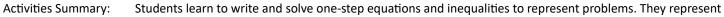TEKS Cluster: Expressions, Equations, and Inequalities
TEKS Subcluster: Representation and Solutions of Equations/Inequalities
Student Expectations: 6.9(A), 6.9(B), 6.9(C), 6.10(A), 6.10(B)
Activities Summary: Students learn to write and solve one-step equations and inequalities to represent problems. They represent the solutions on number lines. They also write real-world problems to match equations and learn to tell if a value makes an equation or inequality true. Activities may be organized and delivered in three topics: **Equations**, **Inequalities**, and **Equations and Inequalities**.

lead4ward

Activity Title Student Expectations	Activity Topic	Type			Delivery		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
Equations							
From Arithmetic to Equations 6.9(B), 6.10(A), 6.10(B)	**Model and Solve One-Step Equations** In this two-part activity, students solve addition and subtraction equations in Part 1 and multiplication and division equations in Part 2. They use algebra tiles to solve equations, write the solution process, and graph the solutions.	✔	✔		✔		
Problems to Equations to Solutions 6.9(B), 6.10(A), 6.10(B)	**Use Equations to Represent and Solve Problems** This activity introduces the idea of operations on a variable. Students write equations to represent word problems, solve, and graph the solutions.	✔	✔		✔		
Mr. Haroo's Zoo 6.9(A), 6.9(C), 6.10(A)	**Match Equations and Problems** Students match word problems with equations and solve.		✔	✔		✔	
Inequalities							
From Comparisons to Inequalities 6.9(B), 6.10(A), 6.10(B)	**Represent Inequalities on a Number Line** Students learn the meaning of *inequality* and how to graph inequalities on a number line. Note that this activity only includes graphing inequalities, not solving them.	✔			✔		
Solving Inequalities 6.9(B), 6.10(A), 6.10(B)	**Solve One-Step Inequalities** In this two-part activity, students solve and graph addition and subtraction inequalities and multiplication and division inequalities.	✔	✔		✔		
Greater Than or Less Than 6.9(A), 6.10(A)	**Use Inequalities to Represent Problems** Students write and solve inequalities that represent word problems and graph the solutions.	✔	✔		✔		
Equations and Inequalities							
Greater Than, Less Than, or Equal To 6.9(C)	**Use Equations and Inequalities to Represent Problems** Students sort word problems according to whether they represent =, <, >, ≥, or ≥ and solve them.		✔	✔		✔	