UNIT 9 - INEQUALITIES

6.10A model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts

Essential Questions:

- How can you solve an inequality involving addition or subtraction?
- How can you solve an inequality involving multiplication or division with positive numbers?
- How do you solve inequalities that involve multiplication and division of integers?
- How is solving an inequality similar to solving an equation?

Vocabulary:

- quotient
- algebraic equation
- factor
- solution
- coefficient
- inequality
- sum
- inequality symbol (<, ≤, ≥, ≠)
- constant
- inverse operations
- term (in an expression)
- variable
- difference
- product

Misconceptions:

- Students may forget to reverse the inequality symbol when multiplying or dividing both sides of an inequality by a negative number.

Prior Knowledge:

- In Grades 4–5, students represented multi-step problems involving the four operations and whole numbers using equations with a letter (variable) standing for the unknown quantity.