

Algebra

Goal: The learner will demonstrate an understanding of linear relations and fundamental algebraic concepts.

Objective:

5.03 Use and evaluate algebraic expressions, linear equations or inequalities to solve problems.

To achieve this objective, students should:

- Evaluate algebraic expressions involving operations with rational numbers.
- Solve one and two step equations with rational numbers
- Solve multi-step equations with variables on one side by combining like terms, and/or using the distributive property.
- Justify each step of solving an equation using properties of rational numbers and properties equality.
- Translate written descriptions into algebraic symbols to solve problems.

Note: Equations should include positive and negative fractions, decimals or a combination of both, along with integers.

- Solve one and two step inequalities with rational numbers
- Solve multi-step inequalities with variables on one side by combining like terms, and/or using the distributive property.
- Graph and interpret solutions on a number line.
- Justify each step of an inequality using properties of rational numbers and properties of inequality.
- Translate written descriptions into algebraic symbols to solve problems

Note: Inequalities should include positive and negative fractions, decimals or a combination of both, along with integers.