



Apply Systems of Equations in Solving Problems

Achieved	Merit	Excellence
Apply systems of simultaneous equations concepts in solving problems.	Apply systems of simultaneous equations, using <u>relational thinking</u> , in solving problems.	Apply systems of simultaneous equations, using <u>extended abstract thinking</u> , in solving problems.
<u>Relational Thinking</u> - Involves selecting and carrying out a logical sequence of steps, connecting different concepts or representations, demonstrating understanding of concepts, and relating findings to a context.		
<u>Extended Abstract Thinking</u> - Involves devising a strategy, identifying relevant concepts, developing logical reasoning, forming generalizations, and communicating mathematical insight.		

Systems of Equations Methods

The methods included in this standard are related to:

- Forming systems of simultaneous equations from a given situation.
- Solving systems of simultaneous equations using various techniques.
- Analyzing the nature of solutions to systems (e.g., unique solution, infinitely many solutions, no solution).

Problems

Situations set in real-life or mathematical contexts that provide opportunities to apply knowledge or understanding of systems of simultaneous equations.

Key Vocabulary

Students are expected to understand and use terms related to Systems of Equations methods, such as:

- | | | |
|-----------------------------------|--|---|
| <input type="checkbox"/> System | <input type="checkbox"/> Unique | <input type="checkbox"/> Method |
| <input type="checkbox"/> Variable | <input type="checkbox"/> Infinitely Many Solutions | <input type="checkbox"/> Representation |
| <input type="checkbox"/> Solve | <input type="checkbox"/> No Solutions | |
| <input type="checkbox"/> Solution | | |