

Grade 7 - Unit 7 Equations

PR06 Students will be expected to model and solve, concretely, pictorially, and symbolically, problems that can be represented by one-step linear equations of the form $x + a = b$, where a and b are integers.

Performance Indicators

PR06.01 Represent a given problem with a linear equation, and solve the equation using concrete models.

PR06.02 Draw a visual representation of the steps required to solve a given linear equation.

PR06.03 Solve a given problem using a linear equation and record the process.

PR06.04 Verify the solution to a given linear equation using concrete materials and diagrams.

PR06.05 Substitute a possible solution for the variable in a given linear equation into the original linear equation to verify the equality.

Limited	Developing	Competent	In-Depth
<p>Student can represent a given linear equation involving positive integers using concrete materials.</p> <p>Student can estimate both reasonable and unreasonable solutions to a problem.</p> <p>Student can draw a picture to help make sense of a word problem.</p>	<p>Student can represent and solve a given linear equation involving integers concretely, pictorially, or symbolically.</p> <p>Student can verify solutions to linear equations in the form of $x + a = b$, where a and b are integers, using concrete materials, pictures or by substituting a possible value for the variable.</p> <p>Student can identify the relevant information in a word problem.</p>	<p>Student can represent and solve a given linear equation involving integers concretely, pictorially, and symbolically.</p> <p>Student can verify solutions to linear equations in the form of $x + a = b$, where a and b are integers, using concrete materials, pictures and by substituting a possible value for the variable.</p> <p>Student can create a linear equation in the form of $x + a = b$, where a and b are integers, to solve a given problem and record the process.</p>	<p>Student can solve a linear equation flexibly using a variety of methods, record the process and verify solutions.</p> <p>Student can create and solve a real-world problem relating to linear equations with a meaningful and relevant context to my own life</p>