

Learning Targets

Linear Equations and Linear Systems

Lesson 1: Number Puzzles

- I can solve puzzle problems using diagrams, equations, or other representations.

Lesson 2: Keeping the Equation Balanced

- I can add or remove blocks from a hanger and keep the hanger balanced.
- I can represent balanced hangers with equations.

Lesson 3: Balanced Moves

- I can add, subtract, multiply, or divide each side of an equation by the same expression to get a new equation with the same solution.

Lesson 4: More Balanced Moves

- I can make sense of multiple ways to solve an equation.

Lesson 5: Solving Any Linear Equation

- I can solve an equation where the variable appears on both sides.

Lesson 6: Strategic Solving

- I can solve linear equations in one variable.

Lesson 7: All, Some, or No Solutions

- I can determine whether an equation has no solutions, one solution, or infinitely many solutions.

Lesson 8: How Many Solutions?

- I can solve equations with different numbers of solutions.

Lesson 9: When Are They the Same?

- I can use an expression to find when two things, like height, are the same in a real-world situation.

Lesson 10: On or Off the Line?

- I can identify ordered pairs that are solutions to an equation.
- I can interpret ordered pairs that are solutions to an equation.

Lesson 11: On Both of the Lines

- I can use graphs to find an ordered pair that two real-world situations have in common.

Lesson 12: Systems of Equations

- I can explain the solution to a system of equations in a real-world context.
- I can explain what a system of equations is.
- I can make graphs to find an ordered pair that two real-world situations have in common.

Lesson 13: Solving Systems of Equations

- I can graph a system of equations.
- I can solve systems of equations using algebra.

Lesson 14: Solving More Systems

- I can use the structure of equations to help me figure out how many solutions a system of equations has.

Lesson 15: Writing Systems of Equations

- I can write a system of equations from a real-world situation.

Lesson 16: Solving Problems with Systems of Equations

- I can use a system of equations to represent a real-world situation and answer questions about the situation.