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Solving Linear Equations

Today's Standard

8.EE.C7a - Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers).

Cues	Notes
Linear Equations	Linear equations can have one solution, no solution, or infinitely many solutions.
One Solution	One solution occurs when the equation simplifies to $x = a$
No Solution	
Infinitely Many Solutions	No solution occurs when the equation simplifies to a = b (a and b are different).
Simplifying Equations	Infinitely many solutions occur when the equation simplifies to a = a.
	Simplifying involves combining like terms and using properties of equality.

Summary

Linear equations in one variable can have one, none, or infinitely many solutions. The process of simplifying these equations helps determine the number of solutions.