


Linear Equations: One Solution, No Solution, Infinitely Many Solutions Card Sort

Each card below has a linear equation with either one solution, no solution, or infinitely many solutions. Cut out the cards and group them based on how many solutions they have using the table on the next page.

$5x + 11 = -4$	$-18x = -2(9x)$	$4x = 5x - x$
$7x - 9 = 7x - 3$	$6x + 2 = 14$	$-10x + 4x = -6x$
$18 = -2 + 4x$	$2(x + 8) = 2x + 8$	$4x + x = 8 + 5x$
$-9x - 3x = 2(x + 14)$	$6(x - 2) = 3(2x - 4)$	$3(x + 8) = 15x - 6 + 3x$
$x + 5x - 11 = 2(3x + 5)$	$5(x + 4) = 5x - 18$	$8x + 2x - 6 = 2(5x - 3)$
$4x - 16 = 4(x + 4)$	$2(4x + 7) = 13x - 5x + 14$	$12x - 15 = 8x - 3$



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Put the cards from page 1 into the correct columns below based on how many solutions they have.

One solution	No solution	Infinitely many solutions