



Equations Maze

Starting from the highlighted rectangle find a route to the opposite side of the grid so that each equation you land on has the same solution.

You may only move one space horizontally or vertically each time – no diagonal moves allowed!

$\frac{4x}{5} = 12$	$\frac{5x}{9} = 4x+2$	$\frac{1}{x} = \frac{1}{3} + \frac{1}{5}$	$\frac{9}{x} + \frac{3x}{8} = 7x^2+8$	$\frac{6}{x+4} = \frac{2}{3}$	$\frac{2x-4}{4} + 3 = \frac{9}{2}$
$\frac{3}{5} + \frac{2x}{7} = 4$	$\frac{5}{2x} + \frac{3}{4} = 2$	$\frac{3x}{7} + \frac{x}{5} = 3$	$\frac{5x}{3} + \frac{7x}{2} = \frac{9x+12}{2}$	$\frac{18}{x-7} = 9$	$\frac{3x-4}{5} + \frac{2x}{3} = \frac{6x-1}{5}$
$\frac{x+7}{3} = 10$	$\frac{x}{2} + \frac{7}{4} = \frac{25}{4}$	$\frac{3x}{4} + \frac{2x}{3} = \frac{5x+6}{4}$	$\frac{x}{3} + 7 = 10$	$\frac{3x}{2} + \frac{8}{x} = \frac{19}{2}$	$\frac{1}{x} + \frac{1}{7} = 9$
$\frac{3x-x+1}{2} = \frac{x+7}{3} = \frac{x+7}{6}$	$\frac{11}{x} + \frac{14}{2x} = 2$	$\frac{x}{8} + \frac{3}{4} = 1$	$\frac{x+1}{3} + 2 = \frac{14}{3}$	$\frac{3x}{4} + \frac{1}{5} = 2$	$\frac{x-2}{4} + 1 = \frac{7}{4}$
$\frac{8}{3x} = \frac{4}{x+3}$	$\frac{x+3}{2} + \frac{2x}{3} = 5$	$\frac{2x}{5} - \frac{5}{8} = 4$	$\frac{x}{3} + \frac{5x}{4} = 2$	$\frac{5}{x} - \frac{3}{x+2} = 1$	$\frac{x-3}{2} - \frac{x+2}{3} = 5$
$2 = \frac{1}{7} + \frac{1}{x}$	$\frac{3x}{4} + \frac{x}{7} = 8$	$\frac{5}{x-3} = 1$	$\frac{20}{x} = 4$	$\frac{7}{2x-1} = \frac{1}{5}$	$\frac{2x}{3} - \frac{3x}{5} = 4$

Some of the 'wrong turns' in the maze highlight common misconceptions, which ones can you find?