

Literal Equations and Formulas

Directions: Solve each equation for the variable given. Use your answer to navigate through the maze. Show your work.

START $2xy - yz = 8; z$	$\frac{12 + x}{4} = \frac{y - x}{2}; x$	$\frac{x}{2} - y = 2y; y = 3$	$\frac{y}{2} = -2x + y; y = -2$
$z = \frac{xy - 8}{2y}$	$x = \frac{2y - 12}{6}$	$x = \frac{1}{2}$	
$z = \frac{2xy - 8}{y}$	$x = \frac{2y - 12}{3}$	$x = -2$	$x = \frac{-1}{2}$
$4a = 2c - 3; a$	$x + xy = 1 - y; y = 2$	$2x - 2 = 3y + 5; y = -1$	$-4y = -2x + 8; y = 1$
$a = \frac{2c - 4}{3}$	$x = -\frac{1}{3}$	$x = 1$	
$a = \frac{2c - 3}{4}$	$x = 2$	$x = 5y + 18$	$x = 6$
$-2x + 3yx = 4; x$	$\frac{6x - 5}{2} = 3y; x$	$\frac{x + 2}{y + 4} = 5; x$	$2y + \frac{10}{x} = y; y = 5$
$x = \frac{4}{-2 + 3y}$	$x = 3y - 18$	$x = 5y - 18$	
$x = \frac{-2 + 3y}{4}$	$x = \frac{6y + 5}{6}$	$x = \frac{4y - 10}{3}$	$x = -2$
$\frac{2x + 4}{2} = 2y; x$	$\frac{x - 5}{y + 2} = 4; x$	$y - \frac{x}{4} = \frac{x + 5}{2}; x$	
$x = \frac{6y + 5}{6}$	$x = 4y + 13$	$x = \frac{4y - 3}{10}$	
			