

Literal Equations and Formulas

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

START
 $2xy - yz = 8; z$

$z = \frac{xy - 8}{2y}$

$\frac{12 + x}{4} = \frac{y - x}{2}; x$

$x = \frac{2y - 12}{6}$

$\frac{x}{2} - y = 2y; y = 3$

$\frac{y}{2} = -2x + y; y = -2$

$x = \frac{1}{2}$

$z = \frac{2xy - 8}{y}$

$a = \frac{4c - 3}{2}$

$x = \frac{2y - 12}{3}$

$x = -3$

$x = -2$

$x = \frac{-1}{2}$

$4a = 2c - 3; a$

$a = \frac{2c - 4}{3}$

$x + xy = 1 - y; y = 2$

$x = -\frac{1}{3}$

$2x - 2 = 3y + 5; y = -1$

$x = 1$

$-4y = -2x + 8; y = 1$

$a = \frac{2c - 3}{4}$

$x = 3$

$x = 2$

$x = 2y - 6$

$x = 5y + 18$

$x = 4y + 18$

$x = 6$

$-2x + 3yx = 4; x$

$\frac{6x - 5}{2} = 3y; x$

$\frac{x + 2}{y + 4} = 5; x$

$2y + \frac{10}{x} = y; y = 5$

$x = \frac{4}{-2 + 3y}$

$x = 3y - 18$

$x = 5y - 18$

$x = \frac{-2 + 3y}{4}$

$x = \frac{4 - 2}{4 - 3y}$

$x = \frac{6y + 5}{6}$

$x = \frac{3y - 10}{4}$

$x = \frac{4y - 10}{3}$

$x = -5y + 18$

$x = -2$

$\frac{2x + 4}{2} = 2y; x$

$\frac{x - 5}{y + 2} = 4; x$

$y - \frac{x}{4} = \frac{x + 5}{2}; x$

$x = \frac{6y + 5}{6}$

$x = 4y + 13$

$x = \frac{4y - 3}{10}$

Good Job!

The End