

True or False? Solutions to Equations

A _____ of an equation is a _____ of a _____ that makes the equation true.

Example I	Plug in the given value	Is the equation true?
Is $b = 3$ a solution to the equation $8 - b = 5$?	$8 - (3) = 5$ $5 = 5$	$8 - (3) = 5$ yes
Example II Is $m = 7$ a solution to the equation $4m = 32$?	$4(7) = 28$ $28 \neq 32$	$4(7) \neq 32$ no

Determine if the given values make the equations true.

$y = 4$ $2 + y = 8$		
$h = 51$ $\frac{1}{3}h = 17$		
$w = 6$ $w^2 = 36$		
$k = 48$ $\frac{k}{3} = 16$		
$x = 129$ $250 - x = 131$		
$d = 5$ $35d = 175$		
$z = \frac{1}{4}$ $56z = 14$		
$a = 2$ and $b = 3$ $4a + 5b = 14$		