Name _____

Identity Property in Equations Answer Key

#	Equation	Solved	Identity Property?	Explanation
1	$x + 0 = 12$	$x = 12$	Yes	Add 0 → unchanged
2	$y \times 1 = 9$	$y = 9$	Yes	Multiply by 1
3	$m + 2 = 9$	$m = 7$	No	Add 2 changes value
4	$1 \times a = 14$	$a = 14$	Yes	Multiply by 1
5	$n + 0 = 7$	$n = 7$	Yes	Add 0
6	$z \times 0 = 0$	any z	No	Zero property
7	$0 + p = 3$	$p = 3$	Yes	Add 0
8	$q \times 1 = 10$	$q = 10$	Yes	Multiply by 1
9	$r + 5 = 8$	$r = 3$	No	Add 5 changes value
10	$s \times 1 = 1$	$s = 1$	Yes	Multiply by 1
11	$0 + t = 15$	$t = 15$	Yes	Add 0
12	$u \times 2 = 10$	$u = 5$	No	Multiply by 2 changes value
13	$v + 0 = 22$	$v = 22$	Yes	Add 0
14	$w \times 1 = 0$	$w = 0$	Yes	Multiply by 1
15	$k + 0 = 0$	$k = 0$	Yes	Add 0
16	$1 \times h = 9$	$h = 9$	Yes	Multiply by 1
17	$j + 4 = 9$	$j = 5$	No	Add 4 changes value
18	$0 + g = 2$	$g = 2$	Yes	Add 0