

Properties of Equality Homework

Name _____ Class Period _____

1. A football team is on the 35-yard time. The quarterback is sacked at the line of scrimmage. The team gains 0 yards. Which identity or property does this represent? Explain.

2. Identify the sentence that does not belong with the other three. Explain.

$$x+12=12+x$$

$$7h=h\cdot 7$$

$$1+a=a+1$$

$$(2j)k=2(jk)$$

3.	$9\cdot 7=7\cdot 9$	
4.	$2\cdot(3\cdot 4)=(2\cdot 3)\cdot 4$	
5.	$37\cdot 0=0$	
6.	$1\cdot 87=87$	
7.	$14+6=6+14$	
8.	$3(6a)=(3\cdot 6)a$	
9.	$2b+0=2b$	
10.	$55+6=6+55$	
11.	If $2^4=2^x$ then $4=x$	
12.	$(x+3)+y=x+(3+y)$	
13.	$1\cdot mp=mp$	
14.	$9+(5+35)=(9+5)+35$	
15.	$6b+0=6b$	
16.	$7x\cdot 0=0$	
17.	$4(3\cdot z)=(4\cdot 3)z$	
18.	If $4^x=4^5$ then $x=5$	