

**Practice Worksheet 1-3****Properties**

Name the property shown by each statement.

1.  $4 + (9 + 6) = (4 + 9) + 6$
2.  $x + 12 = 12 + x$
3.  $(3 + y) + 0 = 3 + y$
4.  $(x + y) + z = x + (y + z)$
5.  $(15 + x) + 2 = 2 + (15 + x)$
6.  $x \cdot 1 = x$
7.  $14xy = 14yx$
8.  $(3 + 5) + c = 3 + (5 + c)$
9.  $(2 \cdot 5) \cdot 0 = 0$
10.  $6 \cdot (8 + c) = (8 + c) \cdot 6$
11.  $6 \cdot (4 \cdot 3) = (6 \cdot 4) \cdot 3$
12.  $(3 \cdot 9) \cdot 1 = 3 \cdot 9$
13.  $(a + b) + c = c + (a + b)$
14.  $(x + y) \cdot 5 = (y + x) \cdot 5$
15.  $ab + 0 = ab$
16.  $a \cdot b = b \cdot a$
17.  $(x \cdot y) \cdot z = x \cdot (y \cdot z)$
18.  $(7 \cdot 3) \cdot 5 = 7 \cdot (3 \cdot 5)$
19.  $(2 + x) \cdot 0 = 0$
20.  $(8 + 5) + 3 = 3 + (8 + 5)$
21.  $(a + b) \cdot 1 = a + b$