

**Practice*****Identity and Equality Properties******Name the property illustrated by each statement.***

1.  $0 + b = b$

2. If  $x + y = 3$ , then  $3 = x + y$ .

3.  $x = x$

4.  $4 \cdot 1 = 4$

5.  $1 \cdot y = y$

6.  $6 = 6$

7.  $0 = 0 \cdot 12$

8.  $5 = 5 + 0$

9. If  $12 = 17 - 5$ , then  $17 - 5 = 12$ .

10.  $7(8 - 3) = 7(5)$

11.  $w + (4 + 6) = w + 10$

12.  $x + 2 = x + 2$

13.  $(6 + 9)x = 15x$

14.  $(7 - 4)(6) = 3(6)$

15.  $xyz = 1xyz$

16.  $8 + 5 = (4 + 4) + 5$

17. If  $6 + 3 = 9$  and  $9 = 3(3)$ , then  $6 + 3 = 3(3)$ .

***Evaluate each expression. Name the property used in each step.***

18.  $2 + 6(9 - 3^2) - 2$

19.  $5(13 - 39 \div 3) + 7 \cdot 1$

20.  $7(16 \div 4^2)$