Name/Date_____

WS 1E.1 – Properties of Real Numbers

State the property of real numbers that is illustrated. All variables represent real numbers.

1. $v(3t) = (3t)v$ **Commutative Property of Multiplication**

2. $(25x)y = 25(xy)$ **Associative Property of Multiplication**

3. $4x + 13y = 13y + 4x$ **Commutative Property of Addition**

4. $2.3 + x = x + 2.3$ **Commutative Property of Addition**

5. $(2 + 3) + 5 = 2 + (3 + 5)$ **Associative Property of Addition**

6. $(3 + a) + b = 3 + (a + b)$ **Associative Property of Addition**

7. $x\left(\frac{1}{x}\right) = 1$ **Multiplicative Inverse Property**

8. $\frac{x}{3} \cdot \frac{3}{x} = 1$ **Multiplicative Inverse Property**

9. $-7 + 7 = 0$ **Additive Inverse Property**

10. $0 = 2x + (-2x)$ **Additive Inverse Property**

11. $1 \cdot 3x = 3x$ **Identity Property of Multiplication (Multiplicative Identity Property)**

12. $63 \cdot 1 = 63$ **Identity Property of Multiplication (Multiplicative Identity Property)**

13. $-5x + 0 = -5x$ **Identity Property of Addition (Additive Identity Property)**

14. $2(3 + 4) = 2 \cdot 3 + 2 \cdot 4$ **Distributive Property**

15. $5(x + y) = 5x + 5y$ **Distributive Property**

16. $4ab = 4ba$ **Commutative Property of Multiplication**

17. $5 + 3 + 4 = 4 + 5 + 3$ **Commutative Property of Addition**

18. $\frac{7}{8} \cdot \frac{8}{7} = 1$ **Multiplicative Inverse Property**