Name/Date solutions

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 5.1 - Properties of the Real Numbers

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

	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.	$0 = 2x + (-2x) \qquad \text{Additive Inverse Property}$
11.	$1 \cdot 3x = 3x$ Identity Property of Multiplication (Multiplicative Identity Property)
11. 12.	$1 \cdot 3x = 3x$ Identity Property of Multiplication (Multiplicative Identity Property) $63 \cdot 1 = 63$ Identity Property of Multiplication (Multiplicative Identity Property)
11. 12. 13.	$1 \cdot 3x = 3x$ Identity Property of Multiplication (Multiplicative Identity Property) $63 \cdot 1 = 63$ Identity Property of Multiplication (Multiplicative Identity Property) $-5x + 0 = -5x$ Identity Property of Addition (Additive Identity Property)
11. 12. 13. 14.	$1 \cdot 3x = 3x$ Identity Property of Multiplication (Multiplicative Identity Property) $63 \cdot 1 = 63$ Identity Property of Multiplication (Multiplicative Identity Property) $-5x + 0 = -5x$ Identity Property of Addition (Additive Identity Property) $2(3 + 4) = 2 \cdot 3 + 2 \cdot 4$ Distributive Property
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