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Algebra – Properties of Numbers

The video covers the following exercises. Please print this sheet and work along!

Reflexive Property –

Symmetric Property –

Transitive Property –

Substitution Property –

a + _____ = a is the _____

a · _____ = a is the _____

a + _____ = 0 is the _____, example: -3 + _____ = 0

a · _____ = 1 is the _____, example: 4 · _____ = 1

This number is often called the _____.

_____ · _____ · _____ · _____ · _____ · _____ · _____ = _____

This is called The _____ Property of _____.

Commutative Property –

Associative Property –

Please perform the math operations, and state the property you used in each step.

$$6(3-2)+4\cdot\frac{1}{4}+12(7-7)$$

$$6(1)+4\cdot\frac{1}{4}+12(7-7)$$ _____

$$6(1)+4\cdot\frac{1}{4}+12(0)$$ _____

$$6+4\cdot\frac{1}{4}+12(0)$$ _____

$$6+1+12(0)$$ _____

$$6+1+0$$ _____

$$7+0$$ _____

$$7$$ _____

Example	x = ?	Property
$7 \cdot x = 0$		
$x + 3 = 10 + 3$		
$4 + x = 4$		
$2 + 10 = 10 + x$		
$4 + x = 0$		
$x \cdot 1 = 5$ OR $1 \cdot x = 5$		
$5 \cdot x = 1$		