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(2 + 1) + 4 = 2 + (1 + 4)

Associative Property of Addition



3 + 7 = 7 + 3

Commutative Property of Addition



8 + 0 = 8

Identity Property of Addition



(even)•(even) = (even)

Closure Property



6 • 4 = 4 • 6

Commutative Property of Multiplication



17 + (-17) = 0

Inverse Property of Addition



2(5) = 5(2)

Commutative Property of Multiplication



even + even = even

Closure Property



$3(2+5) = 3 \cdot 2 + 3 \cdot 5$

Distributive Property



$6(7 \cdot 8) = (6 \cdot 7)8$

Associative Property of Multiplication



5 • **1** = **5**

Identity Property of Multiplication



$(odd) \cdot (odd) = (odd)$

Closure Property





$(6-3)4 = 6 \cdot 4 - 3 \cdot 4$

Distributive Property



1(-9) = -9

Identity Property of Multiplication



3 + (-3) = 0

Inverse Property of Addition



1 + [-9 + 3]

= [1 + (-9)] + 3 Associative Property of Addition



-3(6) = 6(-3)

Commutative Property of Multiplication



-8 + 0 = -8

Identity Property of Addition



$3 \cdot 7 - 3 \cdot 4 = 3(7 - 4)$

Distributive Property



6 + [(3 + (-2))]

= (6 + 3) + (- 2) Associative Property of Addition



7 + (-5) = -5 + 7

Commutative Property of Addition



(5+4)9 = 45 + 36

Distributive Property



$-3(5 \cdot 4) = (-3 \cdot 5)4$

Associative Property of Multiplication



-8(4) = 4(-8)

Commutative Property of Multiplication





$5^{1}/_{7} + 0 = 5^{1}/_{7}$

Identity Property of Addition



$3/_4 - 6/_7 = -6/_7 + 3/_4$

Commutative Property of Addition



$1^2/_5 \cdot 1 = 1^2/_5$

Identity Property of Multiplication



(fraction)(fraction)

= fraction Closure Property



$-8^{2}/_{5} + 0 = -8^{2}/_{5}$

Identity Property of Addition



$[(-^2/_3)(5)]9 = -^2/_3[(5)(9)]$

Associative Property of Multiplication





6(3-2n) = 18 - 12n

Distributive Property



2x + 3 = 3 + 2x

Commutative Property of Addition



ab = ba

Commutative Property of Multiplication



a + 0 = a

Identity Property of Addition



a(bc) = (ab)c

Associative Property of Multiplication



a•1 = **a**

Identity Property of Multiplication



$\mathbf{a} + \mathbf{b} = \mathbf{b} + \mathbf{a}$

Commutative Property of Addition



$\mathbf{a}(\mathbf{b} + \mathbf{c}) = \mathbf{a}\mathbf{b} + \mathbf{a}\mathbf{c}$

Distributive Property



a + (b + c) = (a + b) + c

Associative Property of Addition



a + (-a) = 0

Inverse Property of Addition

