ASSOCIATIVE PROPERTY:

In mathematics, the associative property holds true for both addition and multiplication.

<u>Associative property of addition-</u>when adding three numbers, if the order of the addends remains the same and the addends are regrouped, the sum of the numbers will remain the same.

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Examples: (2 + 4) + 8 = 2 + (4 + 8)
6 + 8 = 2 + 12
14 = 14
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General Rule: (a + b) + c = a + (b + c)

<u>Associative property of multiplication</u>-when multiplying three numbers, if the order of the factors remains the same and the factors are regrouped, the product of the number will remain the same.

Examples: 5(3*9) = (5*3)*9 5*27 = 15*9 135 = 135General Rule: a(b*c) = (a*b)c

COMMUTATIVE PROPERTY:

In mathematics, the commutative property holds true for both addition and multiplication.

<u>Commutative property of addition</u>-changing the order of the addends in an addition problem will not affect the sum.

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Examples: 3 + 4 = 4 + 3
7 = 7
General Rule: a + b = b + a
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<u>Commutative property of multiplication</u>-changing the order of the factors in a multiplication problem will not affect the product.

Examples: (9)(6) = (6)(9) 54 = 54General Rule: (a)(b) = (b)(a)