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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| Additive Identity | adding the number 0 to any number does not change the value  https://djq5eqy4vbh27.cloudfront.net/uploads/glossary_term/image/cb872370-203c-4c99-8e09-f6936c82220a/thumb_additive-Identity-property-of-0.jpg  [www.splashmath.com](http://www.splashmath.com) | http://www.printable-math-worksheets.com/image-files/additive-identity.jpg  <http://www.printable-math-worksheets.com/> |  |
| Additive Inverse | adding the opposite of a number in order to get an answer of 0 | http://www.mathsisfun.com/definitions/images/additive-inverse.gif  [www.mathisfun.com](http://www.mathisfun.com) |  |
| Associative Property | in adding or multiplying, the way in which numbers/ variables are grouped does not change the answer    This only works for adding (+) and multiplying (\*).  ***It does not work for subtracting (-) or dividing (÷).*** | **(a \* b) \* c = a \* (b \* c)**  **(4 \* 5) \*2 = 4 \* (5 \* 2)**  **20 \* 2 = 4 \* 10**  **40 = 40** |  |
| combining like terms | combining terms (by adding or subtracting) that are similar to each other | http://mjnwsu132.files.wordpress.com/2013/07/combining-like-terms.gif  http://mjnwsu132.wordpress.com/ | <http://www.mathsisfun.com/algebra/like-terms.html> |
| Commutative Property | in adding or multiplying, changing the order of the numbers/variables does not change the answer    This only works for adding (+) and multiplying (\*).  **It does not work for subtracting (-) or dividing (÷).** | **Addition:**  **a + b = b + a**  **4 + 6 = 6 + 4**  **10 = 10**  **Multiplication:**  **a \* b = b \* a**  **4 \* 6 = 6 \* 4**  **24 = 24** |  |
| Equation Mat | two expression mats put together with an equal sign to find the number(s) that make the expressions equal =    (adapted from textbooks.cpm.org) | **Equation Mat**  **(has equal sign)**  http://textbooks.cpm.org/glossary/cc2/equation_mat.png  textbooks.cpm.org |  |
| evaluate | to put in numbers for the variables (letters) in an algebraic expression | **Evaluating an algebraic expression:**  6b + 5 where b = 2    (6 \* 2) + 5  12 + 5    17 | Watch a video:  <http://www.mathplanet.com/education/pre-algebra/introducing-algebra/evaluate-expressions> |
| Expression Comparison Mat | two expression mats put next to each other to decide which one has a greater value | http://textbooks.cpm.org/glossary/cc2/expression_comparison_mat.png  textbooks.cpm.org |  |
| Multiplicative Identity | any number multiplied by 1 will give you the same number  5 \* 1 = 5  1,238 \* 1 = 1,238 | 3 \* = 21  4 \* = 28  http://upload.wikimedia.org/wikiversity/en/c/cf/7sgiant1.pngThe giant one can be used to make equivalent fractions.  <http://en.wikiversity.org/> |  |
| Multiplicative Inverse | another name for a reciprocal  Reciprocal  [**http://mravery.edublogs.org/**](http://mravery.edublogs.org/) | http://www.printable-math-worksheets.com/image-files/multiplicative-inverse.jpg  [**http://www.printable-math-worksheets.com/**](http://www.printable-math-worksheets.com/) | <http://coolmath.com/prealgebra/06-properties/09-properties-multiplicative-inverse-01.htm> |
| non-commensurate | when no whole number multiple of one measurement can ever equal a whole number multiple of the other  from textbooks.cpm.org | No matter what number of each size tile, these two piles will never exactly match.  textbooks.cpm.org |  |
| Order of Operations | the order to evaluate or simplify an expression   1. Parentheses ( ) 2. Exponents 52 3. Multiplication (\*) and Division (÷) *(left to right )* 4. Addition (+) and Subtraction (-) *(left to right )* | http://www.kidzucation.com/wp-content/uploads/2013/11/Order-of-Operations-Slides-FINAL-JPEG.015.jpg  [**http://www.kidzucation.com/**](http://www.kidzucation.com/) |  |
| term | a number, a variable, or a number multiplied by variable/variables | **Number** = **23**  **Variable** = **b**  **Number and Variable(s)** = **12y or 5ab** |  |
| variable | a letter that represents an unknown value | 2x + 8 – 9y  **variables** |  |