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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| Additive Identity | adding the number 0 to any number does not change the valuehttps://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 number5 \* 1 = 51,238 \* 1 = 1,238 |  3 \* = 21 4 \* = 28http://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 reciprocalReciprocal[**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 expression1. 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** |  |