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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| 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)  |  |
| algebraic expression | math phrase that combines numbers **AND** variables (letters: 3b or 5x) by using (+, -, \*, ÷)\*does not have an equal sign (=) | http://passyworldofmathematics.com/Images/pwmImagesTwo/AlgEOne540x386JPG.jpg <http://passyworldofmathematics.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** |  |
| 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** |  |
| 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>  |
| integers | the counting numbers; can be positive (+) or negative (-)Integers can **NOT** be fractions. | http://www.mathsisfun.com/images/number-line.gif | <http://www.mathsisfun.com/whole-numbers.html> Adding and Subtracting Integers<http://www.mathsisfun.com/positive-negative-integers.html>  |
| 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>  |
| numerical term | numbers or products of numbers | **Numerical term**pic **http://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/) | http://www.mathsisfun.com/operation-order-pemdas.html |
| quotient | the **answer** of a division problem | **14 ÷ 7= 2** **quotient** |  |
| rational numbers | numbers that can be written in a/b form or as a fractionhttp://bhillmath.weebly.com/uploads/2/4/9/0/24902258/8631616_orig.jpeg <http://bhillmath.weebly.com/>  | http://www.webovations.com/education/mathbook/book/ratnumb.jpg http://www.webovations.com/ |  |
| reciprocals | **To find the reciprocal of *whole number*:**Write the number as a fraction over one and then flip it. reciprocal  13 1  1 13 **To find the reciprocal of a *fraction*:**Flip the fraction. 7 9 9 7  reciprocal  | Reciprocal[**http://mravery.edublogs.org/**](http://mravery.edublogs.org/) |  |
| simplify | to change an expression to be easier to understand\*no parentheses ~~2x(5+3)~~\*no like terms  ~~5a + 2a~~ |  **5x -3x +7****simplified: 2x +7**  | Simplifying Expressions: <http://www.mathsisfun.com/algebra/simplify.html> Simplifying Fractions:<http://www.mathsisfun.com/simplifying-fractions.html>  |
| substitution | replacing a variable with a number or expression | http://passyworldofmathematics.com/Images/pwmImagesTwo/Algebra_Substitution_Two_540x386JPG.jpg <http://passyworldofmathematics.com/>  |  |
| terms | a number, a variable, or a number multiplied by variable/variables | **Number** = **23****Variable** = **b****Number and Variable(s)** = **12y or 5ab** |  |