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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| 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** |  |
| 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** |  |
| constant term | the number in an expression that does not have a variable with itconstant = same | https://dr282zn36sxxg.cloudfront.net/datastreams/f-d%3A6fab92bf64407a93f5be8a69a22c340f9756e3491064d63282a98a9a%2BIMAGE%2BIMAGE.1 http://www.ck12.org/ |  |
| constant of proportionality | the equation in proportional relationships is:y= kxk = constant of proportionality (it stays the same)(the slope) | https://gcps.desire2learn.com/d2l/lor/viewer/viewFile.d2lfile/6605/6712/constant_of_proportionality.png gcps.desire2learn.com |  |
| corresponding parts | side or angle that has a matching side or angle on another figure | picture of corresponding sides and angles | <http://www.mathwarehouse.com/geometry/corresponding-angles-sides.php>  |
| Distributive Property | Multiply the number outside of the parenthesis with everything inside the parenthesis. http://www.coolmath.com/prealgebra/06-properties/images/05-properties-distributive-02.gif [www.coolmath.com](http://www.coolmath.com)  | http://passyworldofmathematics.com/Images/pwmImagesTwo/DistLawFive540x390JPG.jpg <http://passyworldofmathematics.com/>  |  |
| equivalent expressions | two different ways to write the same expression  | http://www.algebra1teachers.com/wp-content/uploads/2013/09/equivalent-expressions.png  <http://www.algebra1teachers.com/>   |  |
| 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>  |
| proportional relationship | two amounts that have the same ratio**Example**:If you babysit for 1 hour, you will get paid $9.00. If you babysit for 3 hours, you will get paid $27. 1 hour = 3hours $9.00 = $27.00When one is multiplied by 3, the other number is multiplied by 3.  | https://gcps.desire2learn.com/d2l/lor/viewer/viewFile.d2lfile/6605/6712/unit_rate_graph.png gcps.desire2learn.com  |  |
| scale drawing | the ratio between the length of a drawing or model compared to its length in real lifeScale  <http://www.mathsisfun.com/> | http://www.learningpod.com/apiproxy/content/a1f2712c-c69c-429e-9d14-0d95198016f1 <http://www.learningpod.com/>  | <http://www.mathsisfun.com/definitions/scale.html>  |
| scale factor | how much bigger (multiplied) or smaller (divided) two similar shapes are to each otherThe scale factor from the smaller object to the larger one is 3. It is 3 times bigger or 300% bigger.  | scale-sq3 http://www.av8n.com/ |  |
| similar figures | figures that have the same shape, but not the same size | http://www.beaconlearningcenter.com/weblessons/samssimilarshapes/Image3.gif <http://www.beaconlearningcenter.com/>  |  |
| 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>  |
| terms | a number, a variable, or a number multiplied by variable/variables | **Number** = **23****Variable** = **b****Number and Variable(s)** = **12y or 5ab** |  |
| unit rate | a rate with a denominator of 1$8.00 1 hour of babysitting $0.751 apple4 game tokens$1.00 | https://gcps.desire2learn.com/d2l/lor/viewer/viewFile.d2lfile/6605/6712/unit_rate.png gcps.desire2learn.com |  |
| variable | a letter that represents an unknown value | 2x + 8 – 9y **variables** |  |