|  |  |  |  |
| --- | --- | --- | --- |
| **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 it  constant = 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= kx  k = 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 = $27.00  When 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 life  Scale    <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 other  The 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  $0.75  1 apple  4 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** |  |