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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| graph | a way to show numbers or data with a picture | http://www.1stwebdesigner.com/wp-content/uploads/2010/07/chart-tools/tool-free-online-tools-to-create-diagrams-charts-flowcharts-graphs.jpg  Types of Graphs  <http://www.1stwebdesigner.com/> |  |
| growth triangle | a right triangle that is made on a graph in order to find the slope | http://textbooks.cpm.org/glossary/cc3/growthtriangle.png  **change in y-value**  **change in x-value**  The line makes the hypotenuse of the growth triangle.  adapted from textbooks.cpm.org |  |
| parabola | U-shaped curve on a graph  y = ax2 + bx +c  where a does not equal 0  (can open up or down) | http://dj1hlxw0wr920.cloudfront.net/userfiles/wyzfiles/e181a8ce-1673-40f0-858f-b24fded17986.gif    http://www.wyzant.com/ |  |
| parameter | in an equation with x and y variables, there are usually parameters (like the m and b variables below) that are usually replaced with numbers  y = mx + b  slope y-intercept | http://www.optimizesmart.com/wp-content/uploads/2013/01/LA-8-equation-of-straight-l.jpg  http://www.optimizesmart.com/ |  |
| rule | the math that needs to be done to get from the input to the output  **Sample rules**:   1. Add 5 2. Divide by 3, then add 2 3. Multiply by 7, then subtract 1 | |  |  | | --- | --- | | Input | Output | | 5 | 13 | | 6 | 15 | | 9 | 21 | | 10 | 23 |   The rule here is to multiply by 2 and add 3. |  |
| solution | the answer(s) to an equation  or inequality ≤ | 10 = x + 3  -3 = - 3  7 = x  **7 is the solution for this equation** |  |
| tile pattern | figures made of algebra tiles that change in a pattern by the same amount each time.  Each figure to the right adds 2 tiles. | http://www.doe.mass.edu/mcas/images/db/08math05q17-2.gif    **+2**  **+2**  **+2**    www.doe.mass.edu |  |
| variable | a letter that represents an unknown value | 2x + 8 – 9y  **Variables** |  |
| xy table | a way to organize data, also known as an input and output table  The table can be used to make a graph and/or to organize data. | http://ssrsbstaff.ednet.ns.ca/math6supplement/_Media/url-12.gif  http://ssrsbstaff.ednet.ns.ca/ |  |
| y-intercept | the point where a line meets the y-axis  http://images.tutorvista.com/cms/images/67/slope-intercept-equation.png  http://math.tutorvista.com/ | http://www.mathsisfun.com/images/intercept.gif  http://www.mathsisfun.com/ |  |