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| **Vocabulary Word** | **Definition** | **Picture** | **Learn more…** |
| 5-D Process | a way to solve a mathematical problem using trial and error to find the answer   1. Describe/Draw 2. Define 3. Do 4. Decide 5. Declare | **Describe/Draw:**The shape is a rectangle, and we are looking at the perimeter.  http://textbooks.cpm.org/images/cc3/chap01/CC3_1.1.3MN.png     * **Declare:**The base is 21 centimeters, and the height is 8 centimeters. * Example from http://textbooks.cpm.org/ |  |
| area | the amount of space **INSIDE** a shape | http://www.mathgoodies.com/images/fence_perimeter_area.jpg  Area is the space **INSIDE** the fence.    http://www.mathgoodies.com/ | <http://www.mathsisfun.com/geometry/area.html>  area vs. perimeter  <http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/maths/perimeter_and_area/index.html> |
| box plot | a way to visually show many kinds of data (minimum, maximum, range, median, 1st quartile, and 3rd quartile) | https://dr282zn36sxxg.cloudfront.net/datastreams/f-d%3A0aa004fd8840e42e1f7b68e5688f867a2c8e00281be5fdd4986f3ead%2BIMAGE%2BIMAGE.1  mathisfun.com | Video on how to make a box plot:  <https://learnzillion.com/lessons/2961-create-a-box-plot>  more information:  <http://www.mathsisfun.com/data/quartiles.html> |
| coordinates | the numbers that show you a point/location on a coordinate grid or can also be found in an ordered pair (x-coordinate first, then y-coordinate)  \*see ordered pair | X Y Coordinates  http://math.tutorvista.com/ |  |
| dependent variable | this variable depends on the value of another variable  http://arose.iweb.bsu.edu/BSUCourses/ITEDU_699/LP/Variable.jpg  http://arose.iweb.bsu.edu/  It is usually shown as the output value in a table. | http://www.astro.virginia.edu/class/majewski/astr313/lablinks/ex22_1.gif  [astro.virginia.edu](http://www.astro.virginia.edu/class/majewski/astr313/lablinks/GuidePlots.html) |  |
| histogram | a special type of bar graph that shows a range for each bar  The range should be equal amounts for all bars. | http://avoca37.org/14carolynr/files/2011/10/Screen-shot-2011-10-26-at-4.48.14-PM.png  [avoca37.org](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&docid=iO-uFbp14zh-tM&tbnid=v1hpre7EaKpRmM:&ved=0CAQQjB0&url=http%3A%2F%2Favoca37.org%2F14carolynr%2F2011%2F11%2F01%2Fhistogram%2F&ei=91_eU8riCs6fyASvoYD4Cw&bvm=bv.72197243,d.aWw&psig=AFQjCNFuVqIHRPsbyConaWq0PEMppej9zg&ust=1407168882158243) | <http://www.studyzone.org/mtestprep/math8/e/histogram6l.cfm>  <http://www.mathsisfun.com/data/histograms.html> |
| independent variable | this variable will change the value of another variable  http://arose.iweb.bsu.edu/BSUCourses/ITEDU_699/LP/Variable.jpg  http://arose.iweb.bsu.edu/  It is usually shown as the input value in a table. | http://www.astro.virginia.edu/class/majewski/astr313/lablinks/ex22_1.gif  [astro.virginia.edu](http://www.astro.virginia.edu/class/majewski/astr313/lablinks/GuidePlots.html) |  |
| 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> |
| input value | the value you put in changes the value of the other variable  The input value is the independent variable (usually the x variable). | **Independent variable dependent variable**  http://m.mathblaster.com/Mathblaster/CoolMath/Article-Images/input-and-output-tables.jpg  http://www.mathblaster.com/ |  |
| mean | a way to measure data by:   1. adding up all numbers 2. divide that by how many numbers were added   (also known as the “average”) | http://www.passyworld.com/passyImagesTwelve/MeanTwo500x346JPG.jpg  <http://passyworldofmathematics.com/> |  |
| median | a way to measure data by putting all of the numbers in order and then finding the middle number  *If there are two middle numbers, add the two numbers together and divide by two to find the median.* | http://www.mathsisfun.com/definitions/images/median.gif  [www.mathisfun.com](http://www.mathisfun.com) |  |
| ordered pair | a pair of numbers used to locate a point on the coordinate plane  Hint: Run (horizontal) before you jump (vertical)!  http://www.webquest.hawaii.edu/kahihi/mathdictionary/images/orderedpair.png    adapted from: <http://www.webquest.hawaii.edu/kahihi/mathdictionary/O/orderedpair.php> | http://www.mathsisfun.com/images/coordinates-cartesian.gif    http://www.mathsisfun.com/ | <http://www.mathsisfun.com/definitions/ordered-pair.html> |
| origin | the point where the y-axis and the x-axis meet  (0,0) | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTxhGOZrK1jiAL4pRkQ5O39TxUAkhZHOP91J7RVnbbc_h6x2g9kWA  http://zonalandeducation.com/ |  |
| output value | the value that comes out is changed by the input value  The output value is the dependent variable (usually the y variable). | **Independent variable dependent variable**  http://m.mathblaster.com/Mathblaster/CoolMath/Article-Images/input-and-output-tables.jpg  http://www.mathblaster.com/ |  |
| perimeter | the distance AROUND an object | http://www.leslienettling.com/perimeter(color).jpg  [www.leslienettling.com](http://www.leslienettling.com/Nettling5thOhioMathTable.htm) | <http://www.mathsisfun.com/geometry/perimeter.html>  area vs. perimeter <http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/maths/perimeter_and_area/index.html> |
| proportion | two ratios that are equal | http://www.mathsisfun.com/algebra/images/proportion.gif  mathisfun.com |  |
| 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 |  |
| quadrant | one of the four areas in a coordinate plane | http://images.flatworldknowledge.com/redden/redden-fig03_x003.jpg  <http://catalog.flatworldknowledge.com/> |  |
| stem-and-leaf plot | a way to organize data into a chart  Stem= first digit(s) of the number  Leaf= the last digit of the number | Stem and Leaf Plot  mathisfun.com | Watch a video on how to make a stem-and-leaf plot:  <http://www.mathplayground.com/howto_stemleaf.html> |
| 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** |  |
| x-axis | x –axis- horizontal line on a coordinate grid | http://www.gradeamathhelp.com/image-files/x-axis-and-y-axis.jpg  <http://www.gradeamathhelp.com/> |  |
| y-axis | y-axis- vertical line on a coordinate grid | http://www.gradeamathhelp.com/image-files/x-axis-and-y-axis.jpg  <http://www.gradeamathhelp.com/> |  |