

## 6.EE.9: Worksheet

1. Define independent and dependent variable, and give an example of a relationship in which one variable is independent and another is dependent.
2. Anthony works as a ventriloquist at birthday parties, earning \$25 per hour. Set up an equation to relate the number of hours Anthony works,  $h$ , to the total amount of money he earns,  $m$ .
3. Write an equation for the number of years  $y$  expressed in terms of the number of days  $y$ . (Ignore leap years.)
4. Create a table of values for the relationship between  $x$  and  $y$  if  $2x = y$ .
5. Given the table you found in the previous question, graph the points on the coordinate plane.
6. Create a table of values that describes the relationship between  $a$  and  $b$  if  $b = a + 2$ .
7. Given the table you found in the previous question, graph the points on the coordinate plane.
8. Jonathan's ultra-human-like robot downloads emotions at a speed of 2 gigabytes per second. Write an equation that expresses the relationship between the size of the emotion in gigabytes and how long that emotion will take to download.
9. A heart beats about 68 times per minute. Write an equation for the relationship between the number of heartbeats and the number of minutes that pass.
10. Come up with a two quantities that have a relationship that can be expressed as a two-variable equation you've learned. Identify the dependent and independent variables, generate a table of values, and graph these ordered pairs on the coordinate plane.