9.3 Linear Relationships

You can graph a linear relation represent by a $\qquad$ or an $\qquad$ .

First, make a table of values. Check that the values in the table are $\qquad$ .

Then, graph using the $\qquad$ in the table.

Whenever possible, choose variable that are $\qquad$ -.
For example, $h$ for height and $t$ for temperature.

When choosing numbers for your table of values....

## Choose at least 4 values

Check that they are reasonable (can it be a negative?)

It is often useful to have a $x=0$ value
http://www.youtube.com/watch?v=sPPZO5iTIBw\&f eature=em-upload_owner

A $\qquad$ is a mathematical statement that represents the relationship between specific quantities.
An $\qquad$ is a mathematical statement with two expressions that have the same value. The two expressions are separated by an equal sign. For example:
$x+2=3$
$y-7=-4$
$3 a-2=a+2 b$

Evaluate each equation using the given variable $y=5 x-3$ when $x=3$
$y=-5 x$ when $x=10$

Make a table of values for the equation and draw the graph
$x=-2,0,2,4$
$y=3 x+2$


