

## CALCULATOR GUIDE: TI-30XS MULTIVIEW

Use the table feature to create an equation for the following table.

$x$					
$y$					

### How To

- 1) Press the **[data]** button. You should now see lists: L1, L2, and L3.
- 2) Delete any numbers in first (L1) and second (L2) lists. You should now have a blank table.
- 3) In the first (L1) column, input each  $x$ -value, pressing the **[enter]** button after each number.
- 4) Press the **[↵]** button (on the directional pad) to move to the second (L2) column.
- 5) In the second column (L2), input each  $y$ -value, pressing **[enter]** after each number.
- 6) Check your numbers to make sure they are all entered correctly.
- 7) Press **[2nd]** then **[data]** to enter the stats menu. You will now see STATS with two options.
- 8) Press **[↓]** then **[enter]** or press **[2]** to select **2: 2-Var Stats**.
  - There are two variables in our table:  $x$  and  $y$ . The 2-Var Stats option looks at how the two variables relate to each other.
- 9) Select L1 for  $x$ DATA because that is the list that contains your  $x$ -values, then press **[enter]**.
- 10) Select L2 for  $y$ DATA, then press **[enter]**.
- 11) Press **[enter]** to select CALC to tell the calculator to calculate different values using your data.
- 12) Press **[↓]** to scroll through the calculations. Stop when you see **D: a=** and **E: b=**.
  - These values are the slope and  $y$ -intercept of our line (from our data).
  - The value for  $a$  is the slope. Remember that we typically use  $m$  for slope.
  - The value for  $b$  is the  $y$ -intercept.
- 14) Write your linear equation in slope-intercept form,  $y = mx + b$ .
  - Substitute the slope and  $y$ -intercept with the correct  $a$ - and  $b$ -values.
- 14) Press **[2nd]** then **[mode]** to go back to the main screen.