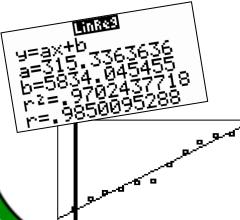
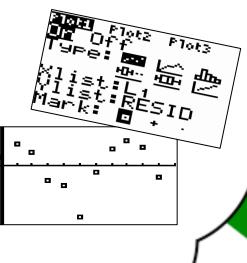
Linear Regression Foldable



Example to Demonstrate Linear Regression on a TI84 Calculator	How to Enter Data into Lists and Graph a Scatterplot
How to	How to find the
Calculate	Correlation
A	Coefficient and
Linear	Graph a
Regression	Residual Plot



Thank you for buying my foldable! ©Foresta Math Please stop back to my store and let me know how the game went. <u>http://www.teacherspayteachers.com/Store/Foresta-Math</u>

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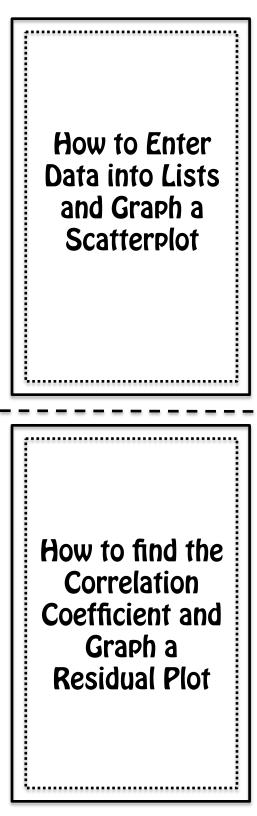
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Frame by Mercedes Hutchens

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Instructions

Print or copy page 3 and 4 double sided. Place the paper so the examples are face down. Cut along the dotted lines to create flaps. Flip and fold the flaps inwards. Glue the foldable into notes or on a piece of construction paper. Go through the foldable with your students.



Example to Demonstrate Linear **Regression on** a T184 Calculator How to Calculate a Linear Regression

Example

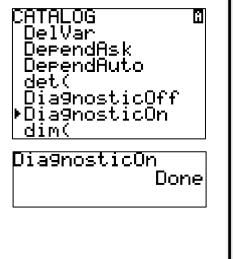
The data below displays the average tuition and fee and room and board for a public four-year college.

School Year	Cost
2003-2004	\$5,900
2004-2005	\$6,322
2005-2006	\$6,566
2006-2007	\$6,662
2007-2008	\$6,943
2008-2009	\$7,008
2009-2010	\$7,672
2010-2011	\$8,174
2011-2012	\$8,557
2012-2013	\$8,821
2013-2014	\$8,893

The source is The College Board, Annual Survey of Colleges

<u>Step 4</u>: Make sure the calculators Diagnostics are on.

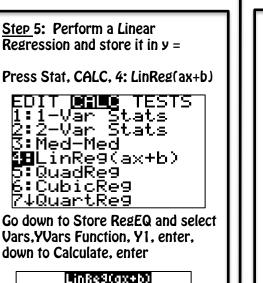
2nd Catalog, Diagnostic on, enter Make sure you see the word done so you know the diagnostics are on.



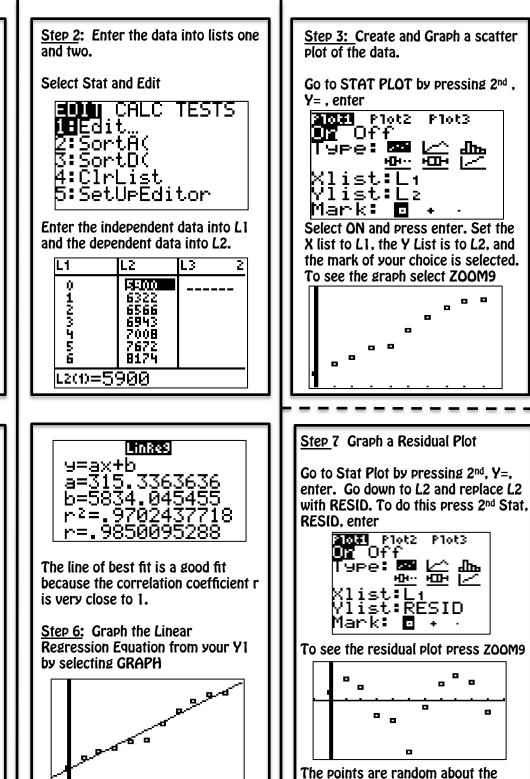
<u>Step 1:</u> Identify the independent and dependent variables and determine how to represent them.

The independent variable, x, is time. The dependent variable, y, is cost. To simplify the values of x, define x as years since the 2003-2004 school year.

School Year	X	Cost y
2003-2004	0	\$5,900
2004-2005	1	\$6,322
2005-2006	2	\$6,566
2006-2007	3	\$6,662
2007-2008	4	\$6,943
2008-2009	5	\$7,008
2009-2010	6	\$7,672
2010-2011	7	\$8,174
2011-2012	8	\$8,557
2012-2013	9	\$8,821
2013-2014	10	\$8,893



Xlist:L1 Ylist:L2 FreqList: Store Re9EQ:Y1 Calculate



x-axis which indicates a linear fit.