

MasterMath



Statistics

SCATTER PLOTS



SCATTER PLOTS

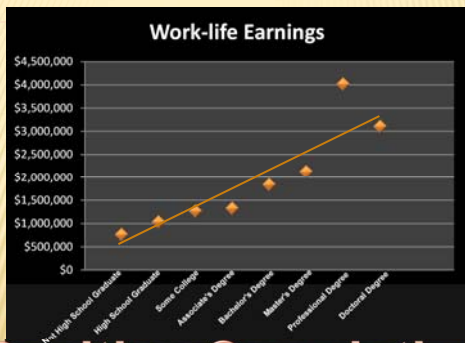
Education Achieved and Earnings	
Education Achieved	Work-life Earnings
Not High School Graduate	\$766,951
High School Graduate	\$1,037,759
Some College	\$1,267,803
Associate's Degree	\$1,331,201
Bachelor's Degree	\$1,838,432
Master's Degree	\$2,127,947
Professional Degree	\$4,015,613
Doctoral Degree	\$3,105,793

Source: U.S. Census Bureau, Current Population Surveys, March 1998, 1999, and 2000.

Positive Correlation



SCATTER PLOTS



Positive Correlation

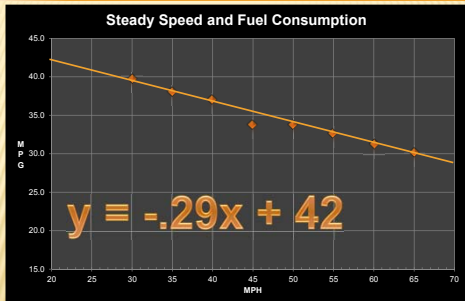


SCATTER PLOTS

Fuel Economy By Speed	
MPH	MPG
30	39.7
35	38.0
40	37.0
45	33.7
50	33.7
55	32.6
60	31.2
65	30.1

Negative Correlation

SCATTER PLOTS



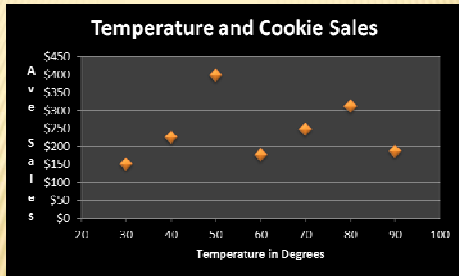
Negative Correlation

SCATTER PLOTS

Carol's Cookies	
Temperature	Ave. Cookie Sales
30	\$150
40	\$225
50	\$398
60	\$176
70	\$248
80	\$312
90	\$186

No Correlation

SCATTER PLOTS



No Correlation



SCATTER PLOTS

Create a Scatter Graph of this Data. What type of correlation does it show?

Year	1804	1927	1960	1974	1987	1999	2012
World Population (in billions)	1	2	3	4	5	6	7

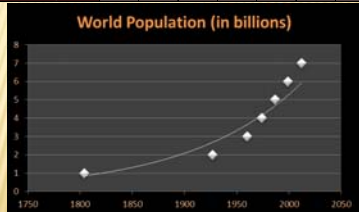
You Try



SCATTER PLOTS

Create a Scatter Graph of this Data. What type of correlation does it show?

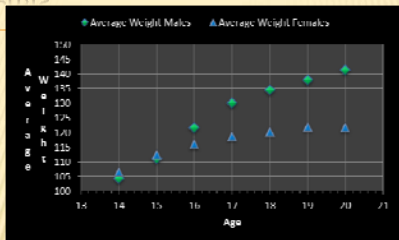
Year	1804	1927	1960	1974	1987	1999	2012
World Population (in billions)	1	2	3	4	5	6	7



You Try



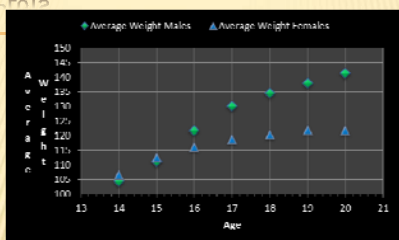
SCATTER PLOTS



Does this Scatter Plot Show a Correlation between Age and Weight? What type of correlation? Describe what it tells us about the difference between how boys and girls age.

You Try It!

SCATTER PLOTS



Does this Scatter Plot Show a Correlation between Age and Weight? What type of correlation? Describe what it tells us about the difference between how boys and girls age.

You Try It!

SCATTER PLOTS

Student	Ave. TV Hours per Week	Test 1 Grade	Test 2 Grade	Average
1	30	80	70	65.0
2	12	80	85	82.5
3	30	85	75	70.0
4	20	85	85	85.0
5	10	100	100	100.0
6	20	78	88	83.0
7	15	75	85	80.0
8	12	95	90	92.5

This table shows scores on tests, and the Average TV hours per week for a group of students. Create a Scatter Plot of the Ave. TV hours and Ave. test score. Find a best-fitting line for the data points.

You Try It!

SCATTER PLOTS

Student	Ave. TV Hours per Week	Test 1 Grade	Test 2 Grade	Average
1	30	60	70	65.0
2	12	80	85	82.5
3	30	85	75	70.0
4	20	85	85	85.0
5	10	100	100	100.0
6	20	78	88	83.0
7	15	75	85	80.0
8	12	95	90	92.5

This table shows scores on tests, and the Average TV hours per week for a group of students. Create a Scatter Plot of the Ave. TV hours and Ave. test score. Find a best-fitting line for the data points.

You Try

SCATTER PLOTS

Now, try it on your own. Go to www.MasterMath.info download [Scatter Plots](#) from the Worksheets Page, and test your skill. Then see how much you understand by taking the Subject Quiz
