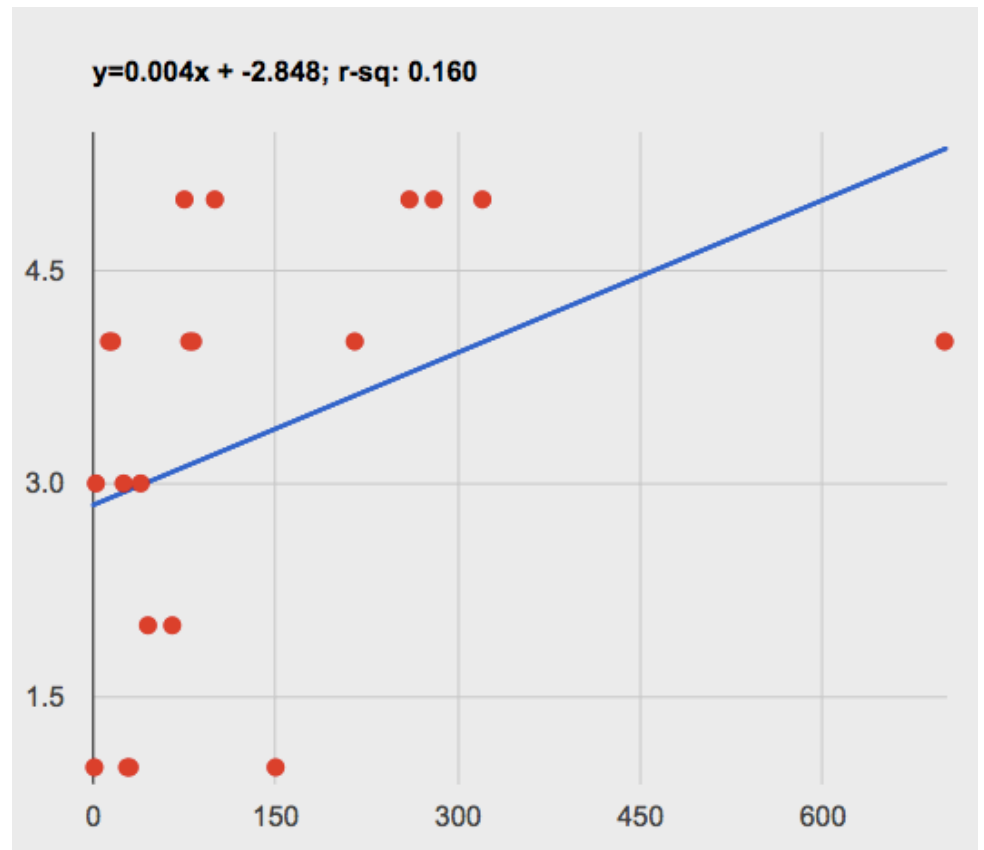# Describing Relationships

Are people more satisfied with a purchase on which they spent more money? A group of people were surveyed about their most recent purchase, rating their satisfaction from 1 (very unsatisfied) to 5 (extremely satisfied).

dollars	satisfaction
15.5	4
280	5
0.99	1
2.3	3
39	3
82	4
215	4
700	4
25	3
79	4
99.99	5
30	1
75	5
13	4
320	5
260	5
150	1
28	1
45	2
65	2

y=0.004x + -2.848; r-sq: 0.160

Describe the relationship between dollars spent and satisfaction shown in the data above.

There is a somewhat weak positive relationship between number of dollars spent on an item and satisfaction with that item.

Based on the r-squared value, about 16% of the variation in satisfaction can be explained by amount of money spent.

Based on the predictor function, we can predict that a person getting an item for free will rate their satisfaction at 2.8.