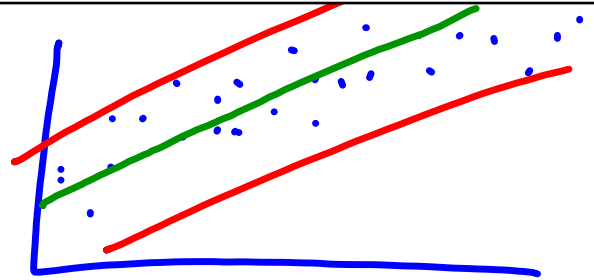


**Warm up:**

What is a scatter plot?

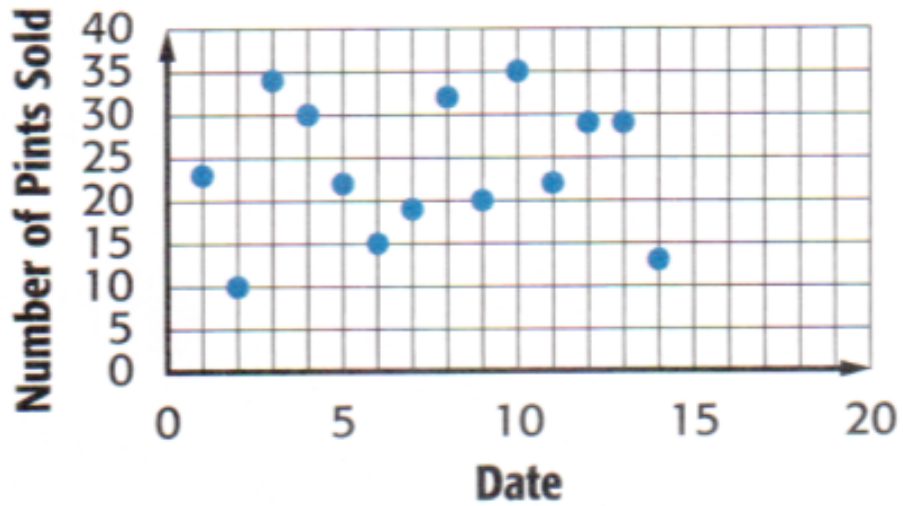


What does a scatter plot show?

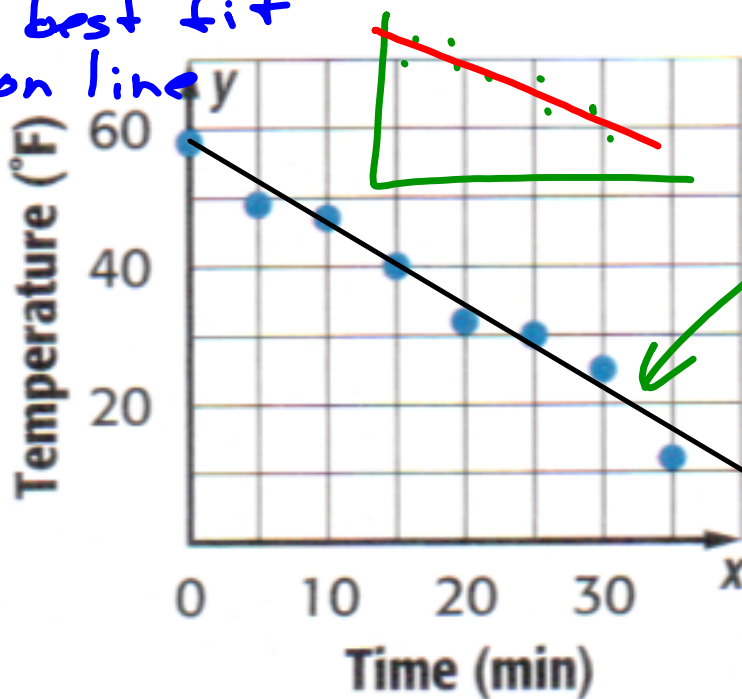
Give an example of data you would display using a scatter plot?

# Scatter Plot

**Ice Cream Sales for  
Two Weeks in May**



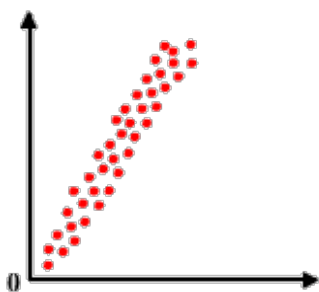
line of best fit  
regression line



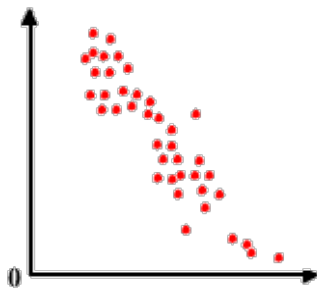
trendline

- follow the trend of the data
- has about the same # of points on each side

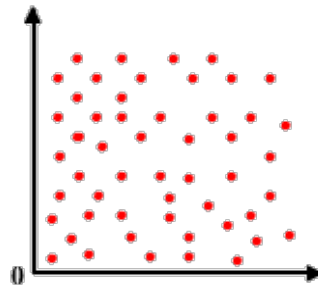
Positive  
Relationship



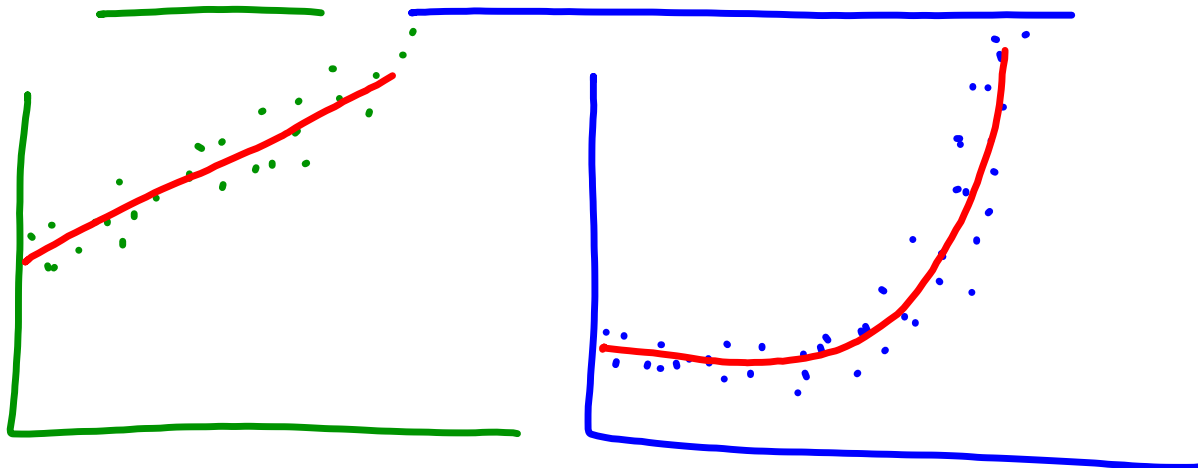
Negative  
Relationship

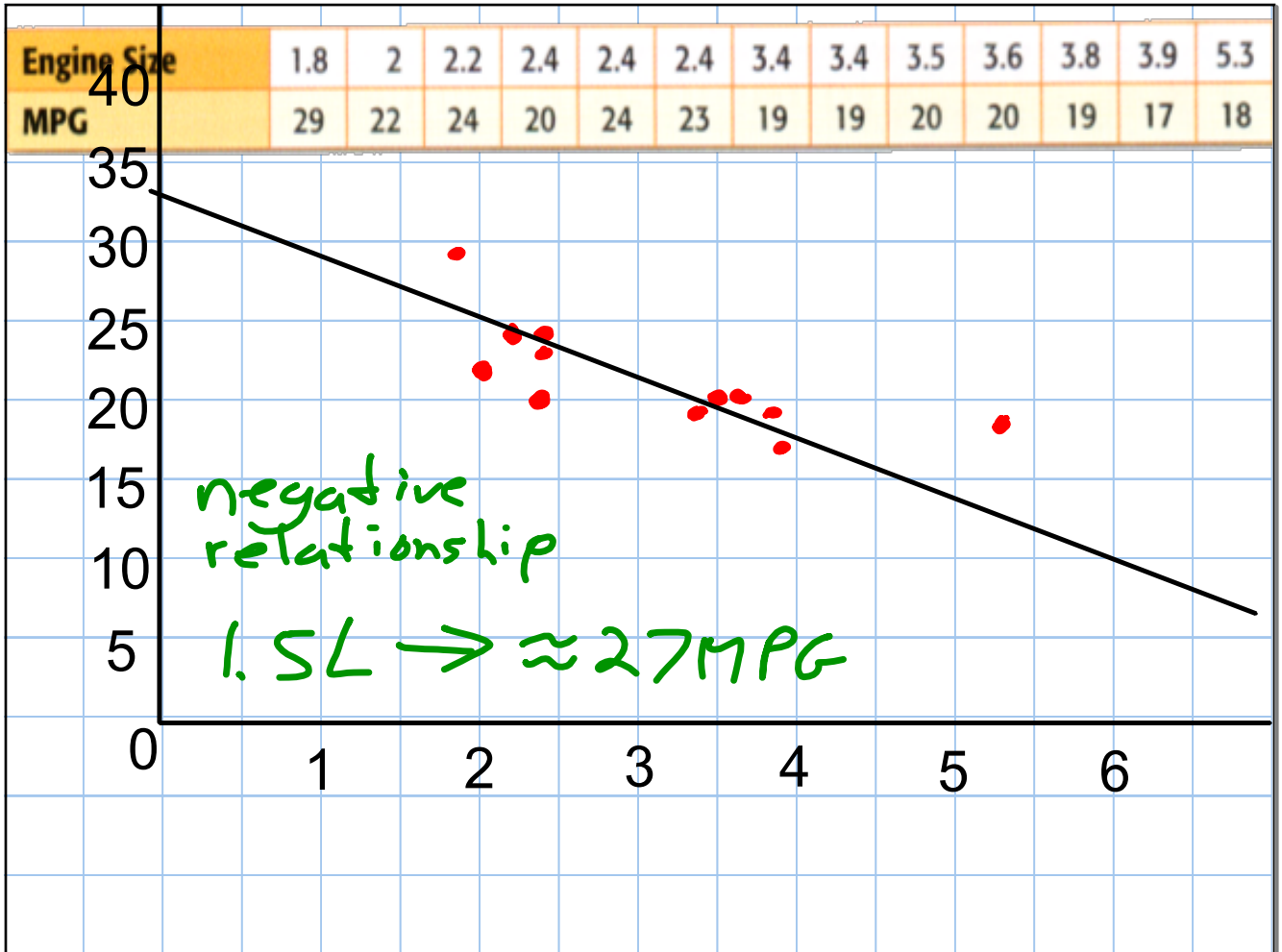


No  
Relationship



## Linear vs non-linear relationships



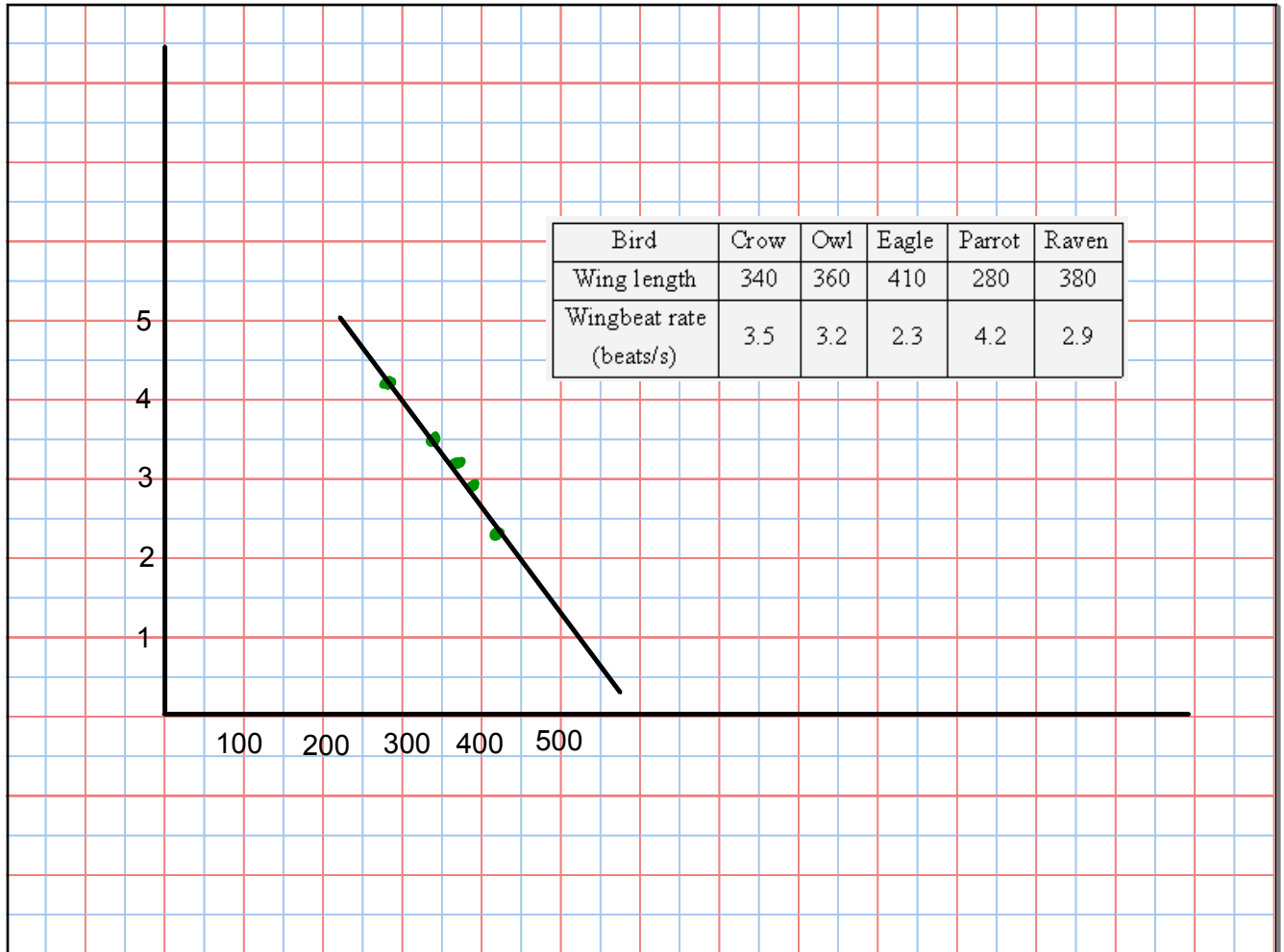


Make a scatter plot for the data. Note any relationships.

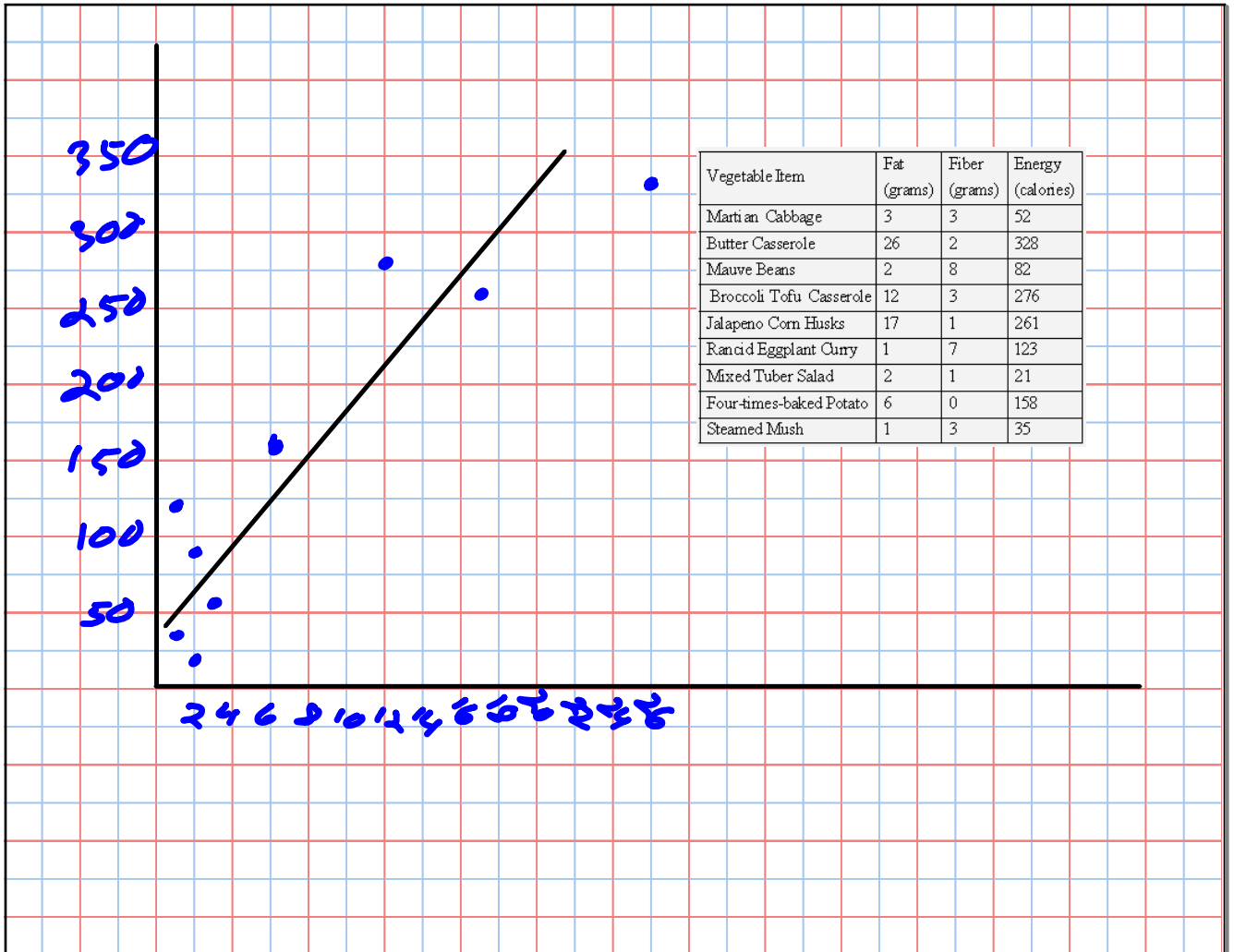
Bird	Crow	Owl	Eagle	Parrot	Raven
Wing length	340	360	410	280	380
Wingbeat rate (beats/s)	3.5	3.2	2.3	4.2	2.9

Make a scatter plot comparing fat to energy and another scatter plot comparing fiber to energy. Note any relationships.

Vegetable Item	Fat (grams)	Fiber (grams)	Energy (calories)
Martian Cabbage	3	3	52
Butter Casserole	26	2	328
Mauve Beans	2	8	82
Broccoli Tofu Casserole	12	3	276
Jalapeno Corn Husks	17	1	261
Rancid Eggplant Curry	1	7	123
Mixed Tuber Salad	2	1	21
Four-times-baked Potato	6	0	158
Steamed Mush	1	3	35







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