

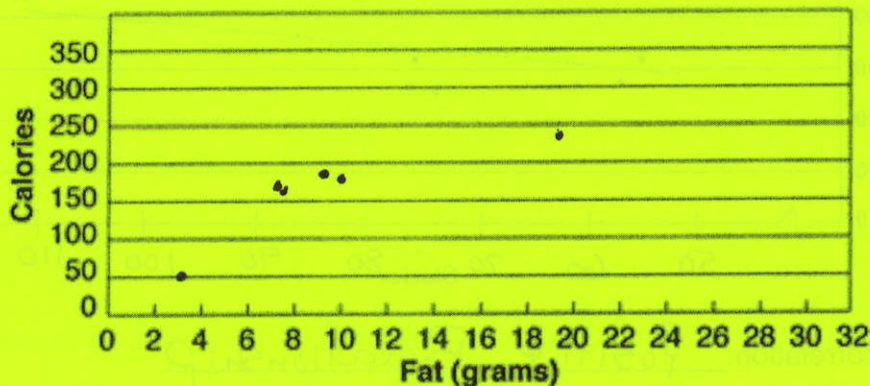
### 9.9 Scatter Plots Worksheet

1. Use the given data to make a scatter plot.

**Calories and Fat Per Portion of Meat & Fish**

	Fat (grams)	Calories
Fish sticks (breaded)	3	50
Shrimp (fried)	9	190
Tuna (canned in oil)	7	170
Ground beef (broiled)	10	185
Roast beef (relatively lean)	7	165
Ham (light cure, lean and fat)	19	245

**Calories and Fat Per Portion of Meat and Fish**



Do the following data sets have a positive, a negative, or no correlation?

- The size of the bag of popcorn and the price of the popcorn: positive
- The increase in temperature and number of snowboards sold: negative
- Use the data to predict how much money Tyler would be paid for babysitting  $7\frac{1}{2}$  hrs.

**Amount Tyler Earns Babysitting**

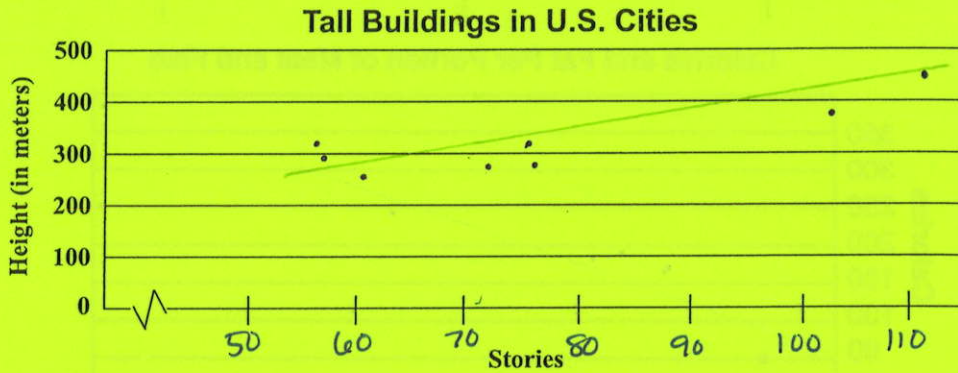
Hours	1	2	3	4	5	6	7	8
Amount	\$4	\$8	\$12	\$16	\$20	\$24	\$28	\$32

According to the data, Tyler would get paid \$ 30 for babysitting  $7\frac{1}{2}$  hours.

5. Use the given data to make a scatter plot, and describe the correlation.

**Tall Buildings in U.S. Cities**

Building	City	Stories	Height (meters)
Sears Tower	Chicago	110	442
Empire State Building	New York	102	381
Bank of America Plaza	Atlanta	55	312
Library Tower	Los Angeles	75	310
Key Tower	Cleveland	57	290
Columbia Seafirst Center	Seattle	76	287
NationsBank Plaza	Dallas	72	281
NationsBank Corporate Center	Charlotte	60	265



Describe the correlation: Positive Relationship

6. Make a scatter plot of the data, and draw a line of best fit. Then use the data to predict the percentage of American homeowners in 1955.

**Percent of Americans Owning Homes**

Year	1950	1960	1970	1980	1990
Percent	55.0%	61.9%	62.9%	64.4%	64.2%

Prediction: 59%

