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

## 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 \$ $\qquad$ for babysitting $7 \frac{1}{2}$ hours.
$\qquad$ Date $\qquad$
$\qquad$
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 |

Tall Buildings in U.S. Cities


Describe the correlation: $\qquad$
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: $\qquad$


