**Activity: What the World Eats** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For this activity you will refer to the following two sources.

1. Time Magazine’s *What the World Eats*. This is four-part photo essay. As you look through the photos of the food consumption of average families from different countries all over the world, take note of the weekly food expenditure figures in the captions. Count the number of family members in the photo to calculate the weekly food expense per capita in USD.

<http://www.time.com/time/photogallery/0,29307,1626519,00.html>

1. Wikipedia’s *List of Countries by Distribution of Wealth.* This list includes every country from Time’s photo essay. You will need to find the appropriate data for wealth per capita in USD to use in the table.

<http://en.wikipedia.org/wiki/List_of_countries_by_distribution_of_wealth>

2. Fill in the table below for ten countries of your choice based on information you gathered from the resources above.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Country** | **Number of family members in photo** | **Weekly food Expenditure**  **(USD)** | **Weekly food expense per capita (USD)** | **Wealth per capita (USD)** |
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3. Using the information from the table above, create a scatterplot below of weekly food expense per capita (on the y-axis) and wealth per capita (on the x-axis).

4. Look at the scatterplot. What is the correlation? Circle one, and use the extra space to explain the reasons for your choice:

Positive Correlation Negative Correlation No Correlation

Why?

5. If there was a correlation in the data, draw a line of best fit on the graph. Also find the slope, y-intercept, and equation of the line. Use the extra space provided to show your calculations.

Slope\_\_\_\_\_\_\_\_\_\_\_\_\_\_

y-intercept\_\_\_\_\_\_\_\_\_\_

Equation \_\_\_\_\_\_\_\_\_\_\_