Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_ Date\_\_\_\_\_\_\_

**What‘s For Lunch?**

**Part 1. Class Survey: (RAW DATA)**

As a class, we will decide which foods your classmates eat most for lunch at school. Make a list of these foods below.

Choose 6 of the foods listed above and survey the class for lunch preferences. Make tally marks for number of people who eat that food.

FOOD TYPES TALLY MARKS

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**Part 2. Data Table: (ORGANIZED DATA)**

Tables are a good way to organize and present data. Create a data table to display your findings in Part 1. Your data table should have an ***overall title*** (for example “Lunch Food Preferences”) and ***labels for your categories*** (for example “Food Type” and “Number of People”).

**Overall Title:**

|  |  |
| --- | --- |
| Category Title: | Category Title: |
|  |  |
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**Part 3. Graph: (ANALYZE)**

Use the graph paper provided to draw a ***bar graph*** showing the distribution of food preferences by food category. Your graph must always have the 3 following parts:

* Title
* X-axis (labeled) food types (manipulated-independent variable)
* Y-axis (labeled) people (responding-dependent variable)

**Part 4.** **Conclusion:**

FIRST- take a look at your bar graph and all of your data that you collected. Then, in the space below, write a paragraph (3-5 sentences) that summarize the findings shown in your graph. Use your data and draw conclusions. What can you interpret from your graph. Lastly, if you were to redo this activity and collect data, what are some different ways you could manipulate it?  
  
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