**Favorite 4th Grade Beverage C:\Users\Graves\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\BY1FALN6\MC900436820[1].wmf**

**Karen Graviss**

**4th Grade**

**Math**

**SPREADSHEET – Excel**

**IN Core Standards**: MP.4

**ISTE Standards**: 3 Research & Information Fluency (a & d); 4 – Critical Thinking, Problem Solving; Decision Making (b & c)

**Short Description**: Based on the results received from the “Favorite Beverage” Survey, the student will know what his classmates like to drink and learn how to enter and format data and create a simple bar chart.

**Steps of Lesson**:

1. Take a survey of your whole class. Ask each of your classmates which of these beverages (coke, root

beer, orange juice, lemonade or water) is their favorite. Use the attached Beverage Survey to

show your answers.

2. Show the Beverage Survey total results in Excel by listing the total of each beverage in a table and bar

graph.

3. Write a paragraph using complete sentences with the answers from the follow-up questions below:

List the beverages in order from the beverage with the most votes to the beverage with the fewest votes. ­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the most popular beverage? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many people chose water over coke? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_

How many more people chose root beer rather than orange juice? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the least popular beverage? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Based on the results of your data, what beverages would you bring for your whole class for their picnic?

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Beverage Survey

Take a survey. Ask your classmates which of these beverages is their favorite. Fill in the tally table to show your answer. Then take the number in the Total column and put it in an Excel Chart and Bar Graph.

|  |  |  |
| --- | --- | --- |
| **Name of Beverage** | **Tally** | **Total** |
| Water |  |  |
| Orange juice |  |  |
| Lemonade |  |  |
| Root Beer |  |  |
| Coke |  |  |

**Check –Off-List for Grading (Rubric)**

|  |  |  |
| --- | --- | --- |
|  | Yes | No |
| Beverage names are - column A. |  |  |
| Results of survey (number of classmates who chose that beverage as their favorite) – column B. |  |  |
| Create a bar chart – go to Insert tab >Charts group >Bar >2D bar. |  |  |
| Format chart- click to select chart –go to Design tab >Chart layouts group >choose a chart layout that will produce a chart title and horizontal & vertical axis. |  |  |
| Fill in the appropriate text for the Chart Title and the axis. |  |  |
| In Design tab > Chart Styles group, choose a style for the bars. |  |  |
| Go to Print> Print preview, make adjustment to chart position as necessary. Print. |  |  |

**Student Sample**



Website used on Favorite Beverage: <http://oakdome.com/k5/lesson-plans/excel>