Grade 2 Summer Mathematics Homework- Data Project

Organize Your Data!

Students will:

- prepare questions and categories for data collection
- collect data by asking questions
- use different methods to collect and record data (in person or with a survey)
- sort and organize data by using graphic organizers such as lists and charts
- display data in more than one way - graphs, pictographs, bar graphs, and rank ordering
- make predictions of what would happen if more data was collected
- generate new questions from displayed data
- obtain new information by performing arithmetic operations on the data

As students learn how to collect, organize, display, and share information in the form of graphs, they develop critical-thinking skills that allow them to make predictions, decisions, and conclusions about their information. Some possible ideas for their project – ages, birthday months, height, numbers of letters in name, favorite colors, animals, sports, foods, etc. Students will have more creative ideas and those questions should be encouraged!

Some good questions to ask are:

- Why did you choose this question?
- What appears most/least often?
- What is the difference between ____ and ____?
- What conclusion can we make?
- What predictions can we make?
- What other questions are now raised?

Name: _____

Organize Your Data!

1. Ask a question.

Try to think of a question that you can ask to your family members, neighbors, friends, or siblings. Some examples include: What is your favorite food? How many letters are in your name? When is your birthday? Which season is your favorite?

My question:

Some of the predictions about what I think I will find out:

How I will collect my data:

Who will be surveyed:

2. Prepare a way to collect this data. You could ask people individually or create a written survey. Can you think of a better way to get the information you need?

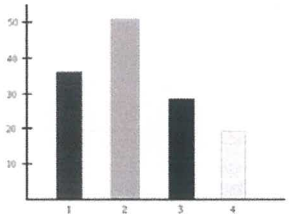
3. Organize your data. Create a table or chart to keep track of your findings.

Example: Favorite animals

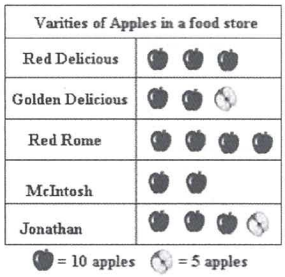
dog	IIII	fish	III
cat	II	turtle	I

4. Display your data. After you have your data organized in a table, you are going to display it in at least 2 different ways.

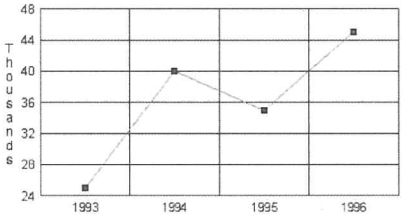
Here are some of your choices:



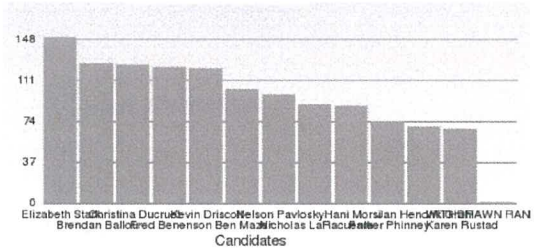
Bar Graph



Pictographs



Line Graph



Rank Ordering (Most To Least)

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5. Create a set of questions to accompany your project. Start easy and then make them more and more difficult. Here are some ideas to get you started:

- Which one appears most often?
- Which one appears least often?
- What is the difference between _____ and _____?
- What if we added 4 more to _____?
- How many more would we need to add to get _____ _____?
  (number) (item)

Name: _____

Organize Your Data Chart

Categories	Tally

Name: _____

Organize Your Data Question Sheet

Ask 10 questions that can be answered by analyzing your data.

1. Question: _____

Answer: _____

2. Question: _____

Answer: _____

3. Question: _____

Answer: _____

4. Question: _____

Answer: _____

5. Question: _____

Answer: _____

6. Question: _____

Answer: _____

7. Question: _____

Answer: _____

8. Question: _____

Answer: _____

9. Question: _____

Answer: _____

10. Question: _____

Answer: _____