

Name _____

Collect and Organize Data

I Can collect and organize data.

Florida's B.E.S.T.

- Data Analysis & Probability 5.DP.1.1
- Mathematical Thinking & Reasoning
MTR.1.1, MTR.2.1, MTR.4.1, MTR.6.1



UNLOCK the Problem

Data are sets of numbers or pieces of information. Conducting a survey is one way to collect data. When you ask people questions and record their answers, you are conducting a survey. Making an observation is another way to collect data. When you collect data by looking at an object or event, you are making an observation.

You can use a table to record the data you collect.

Activity Conduct a survey of the students in your class and record the results in a tally table.

STEP 1 Measure your pencil to the nearest $\frac{1}{4}$ inch.

STEP 2 Title your table. Include the units of measure.

STEP 3 Survey the students in your class. Record their results in the table.

STEP 4 Analyze your data.

Which was the most common length?

Which was the least common length?

How many students did you survey? _____



**Math
Talk**

MTR 4.1 Engage in discussions on mathematical thinking.

Describe how your survey results compare with those of a friend.

Examples

When you conduct a survey, you must ask a good question.

- **Would you rather have a delicious yellow banana or a brown banana?**

You can answer this question, but the word *delicious* might lead you to choose the yellow banana. It is not a fair question. So, this survey question is not a good question.

- **Do you like the color and smell of bananas? (Yes, No)**

You cannot answer this question if you like the color but not the smell. The question asks about too many things. So, this survey question is not a good question.

- **What is your favorite fruit? (Apple, Orange, Banana, Other)**

This survey question _____ a good question.

- **How many bananas did you eat last week?**

It is possible to count how many bananas someone ate for a week. There is more than one possible answer. It _____ a good question.

- **You can record the results in a tally table.**

Which choice got the least tally marks? _____

Which choice got the most tally marks? _____

How many people were surveyed? _____



	Tally

Remember

A tally mark stands for one vote. It looks like this: I. Five tally marks look like this: |||||

Share and Show

Math Board

Tell if the survey question or observation is good.

1. How many pets do you have? (Cat, Dog, Other)

You _____ answer this question, even if you have a bird,
so it _____ a good question.

2. Observe children in the park and record how many like math.

It _____ possible to look at children to know if they like math.

So, this observation _____ a good way to collect data.

