Data from Surveys

In a survey, each student was asked this question. What color is your math notebook? Here are the responses: red, blue, green, red, yellow, yellow, red, blue, red, yellow, blue.

How to display data collected from surveys:

The data can be displayed in a frequency table or a line plot.

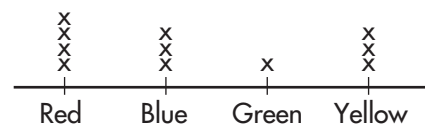| **Frequency Table**	**Line Plot**
1. Count the number of times each different response was made. red: ////; blue: ///; green: /; yellow: ///	1. Count the number of times each different response was made. red: ////; blue: ///; green: /; yellow: ///
2. Construct a frequency table. The table lists each response and its frequency. (The frequency of a response is how many times it was made.)	2. Construct a line plot. The plot lists each response along a horizontal line. The frequencies are stacked as x's above each response.
3. Give the frequency table a title that clearly explains what information is in the table.	3. Give the line plot a title that clearly explains what information is in the plot.

Survey Question: What color is your math notebook?	
Notebook Color	**Number**
Red	4
Blue	3
Green	1
Yellow	3

Survey Question: What color is your math notebook?

```
 X
 X   X       X
 X   X       X
 X   X   X   X
Red Blue Green Yellow
```

1. How many students responded to the notebook survey? _____

2. Which color are the greatest number of math notebooks? _____

3. Describe how you might pick a sample of 50 minivan owners that represent the minivan owners of your state.
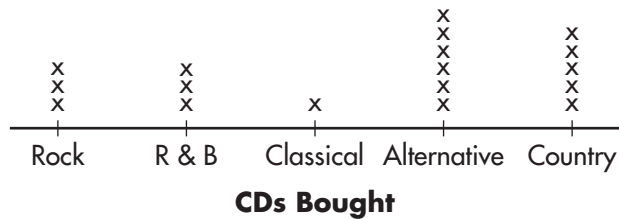
_____

_____

Data from Surveys

Ms. Chen's class took a survey on how many minutes it took each student to get to school. The results are below:

12   14   5   22   18   12   12   6   14   18   12   5   11

1. What are the highest and lowest times?   _____

2. Make a line plot to display the data.

Students in Ms. Chen's Class

Music Bought in Class B

```
                                        x
                                        x
                                        x           x
         x            x                 x           x
         x            x                 x           x
         x            x         x       x           x
        ———————————————————————————————————————————————
        Rock       R & B   Classical Alternative Country
```

CDs Bought

3. If the entire class responded to the survey, how many students are in the class?   _____

4. What information was collected about music? _____

_____

5. Use the line plot above. Which type of CDs did students buy most often?

A Alternative   **B** Classical   **C** Country   **D** Rock

6. Write a survey question that might gather the following information. "In one school there are 6 sets of twins, 2 sets of triplets, and one set of quadruplets."

_____

_____