Line Plots

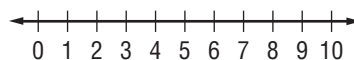**EXAMPLE** **Display Data in a Line Plot**

MAIN IDEA

- Display, analyze, and interpret data using line plots.
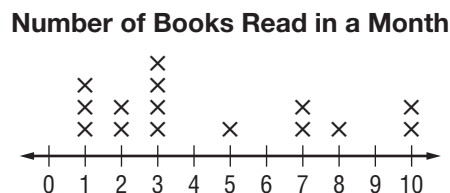
1 **BOOKS** **Make a line plot of the data below.**

Number of Books Read in a Month				
1	3	2	1	3
10	1	7	3	10
5	7	2	8	3

Step 1 Draw a [ ] line. The smallest value is [ ] book and the largest value is [ ] books. So, you can use a scale of [ ]. Other scales could also be used.

```
←+—+—+—+—+—+—+—+—+—+—+→
  0  1  2  3  4  5  6  7  8  9 10
```

Step 2 Put an ✕ above the number that represents each number of books read. Add a [ ].

Number of Books Read in a Month

```
                ✕
         ✕      ✕
         ✕  ✕   ✕         ✕        ✕
         ✕  ✕   ✕      ✕  ✕  ✕      ✕
←+—+——+——+——+—+—+—+—+—+—+→
  0  1  2  3  4  5  6  7  8  9 10
```

EXAMPLES **Analyze a Line Plot**

2 **How many students read 10 books?**
Locate 10 on the number line and count the number of ✕'s above it. There are [ ] students who read [ ] books.

3 **What is the difference between the greatest and least number of books represented in the line plot?**

The least number of books read is [ ]. The greatest number of books read is [ ].

   $10 - 1 = 9$ [ ] to find the difference.

The difference is [ ] books.

4 **If the line plot shows the number of books that members of a book club read in one month, write one or two sentences to analyze the data.**

Sample answer: Most book club members read between [ ] and

[ ] books.

Check Your Progress

a. Make a line plot of the data below.

Number of Raffle Tickets Sold			
15	8	10	12
6	12	9	15
8	10	12	13
10	15	6	10

b. How many students sold 10 raffle tickets?

c. What is the difference between the greatest and least number of raffle tickets represented in the line plot?

d. If the line plot shows the number of raffle tickets that students in Miss Ferguson's class sold in one week, write one or two sentences that analyze the data.

HOMEWORK ASSIGNMENT

Page(s):

Exercises: