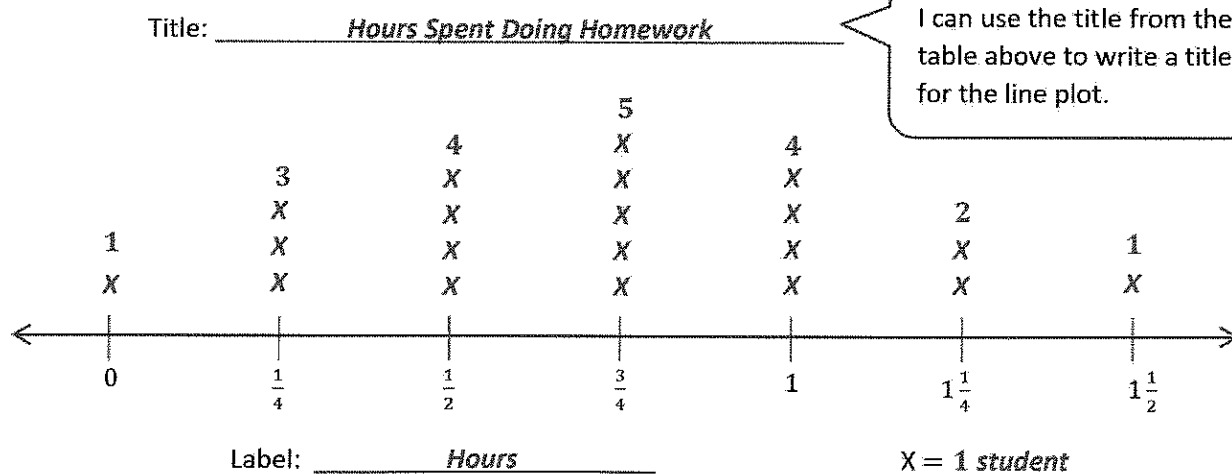## G3-M6-Lesson 7

1. The table below shows the amount of time students in Mrs. Bishop's class spent doing homework on Monday night.

Hours Spent Doing Homework				
$1\frac{1}{4}$ ✓	$\frac{3}{4}$ ✓	$\frac{1}{4}$ ✓	$\frac{1}{2}$ ✓	$1\frac{1}{2}$ ✓
$\frac{3}{4}$ ✓	1 ✓	$\frac{3}{4}$ ✓	1 ✓	$\frac{1}{2}$ ✓
0 ✓	$\frac{1}{2}$ ✓	$\frac{3}{4}$ ✓	$\frac{1}{2}$ ✓	$\frac{3}{4}$ ✓
1 ✓	$\frac{1}{4}$ ✓	$\frac{1}{4}$ ✓	1 ✓	$1\frac{1}{4}$ ✓

> I can draw a checkmark next to each time after I plot it. That way, I can be sure to plot each time only once.

a. Use the data to complete the line plot below.

Title: _____ **Hours Spent Doing Homework** _____

> I can use the title from the table above to write a title for the line plot.

```
                                    5
                        4           X           4
                3       X           X           X
                X       X           X           X                   2
        1       X       X           X           X                   X           1
        X       X       X           X           X                   X           X
    ←———+———————+———————+———————————+———————————+———————————————————+———————————+———————→
        0       1       1           3           1                   1 1          1 1
                ─       ─           ─                                 ──           ──
                4       2           4                                 4            2
```

Label: _____ *Hours* _____   X = 1 *student*

b.   How many students spent $\frac{1}{2}$ hour doing their homework?

4 students spent $\frac{1}{2}$ hour doing their homework.

> I can count the X's for $\frac{1}{2}$ hour to answer this question.

c.   How many students spent less than 1 hour doing their homework?

13 students spent less than 1 hour doing their homework.

> I can count the X's for 0 hours, $\frac{1}{4}$ hour, $\frac{1}{2}$ hour, and $\frac{3}{4}$ hours because these times are all less than 1 hour.

d.   How many students in Mrs. Bishop's class spent time doing homework on Monday night? How do you know?

19 students in Mrs. Bishop's class spent time doing homework on Monday night. I know because I counted all of the X's except the X for 0 hours because that student didn't spend any time doing homework Monday night.

> This problem was a little tricky because usually for a problem like this I can just count all of the X's. I can't count all of the X's this time because 1 student spent 0 hours doing homework on Monday night.

e.   Kathleen says most students spent at least 1 hour doing their homework. Is she correct? Explain your thinking.

No, Kathleen is not correct. 7 students spent at least 1 hour doing their homework, but 13 students spent less than 1 hour doing their homework. Kathleen could say that most students spent less than 1 hour doing their homework.

> I can count the X's for 1 hour, $1\frac{1}{4}$ hours, and $1\frac{1}{2}$ hours to figure out how many students spent at least 1 hour doing their homework. I can look at my answer to Problem 1(c) to see how many students spent less than 1 hour doing their homework.

Lesson 7:   Represent measurement data with line plots.

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