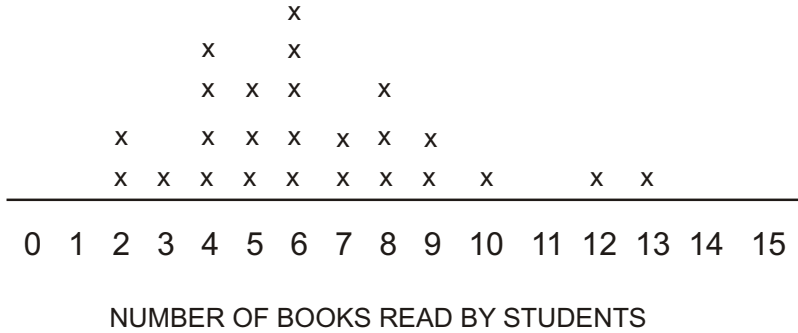


Data Analysis

Median, Mode, Range, Line Plots, Histograms, Categorical and Numerical Data

BOOKS READ IN OCTOBER

x = one student



The line plot on the left shows how many books each student in Mrs. Ritter's class read in the month of October. Answer the next five questions about the data in the line plot.

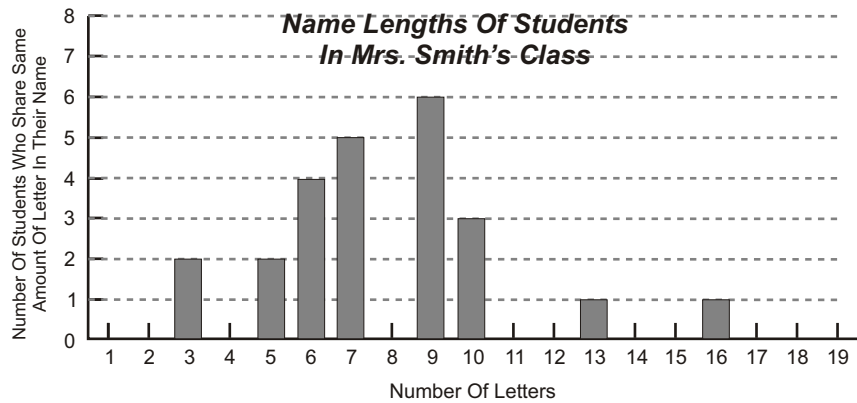
1) How many students read 8 books?

2) How many books read is the **mode**?

3) How many students are there total in this class?

4) What is the **range** of the number of books read by the students in the class?

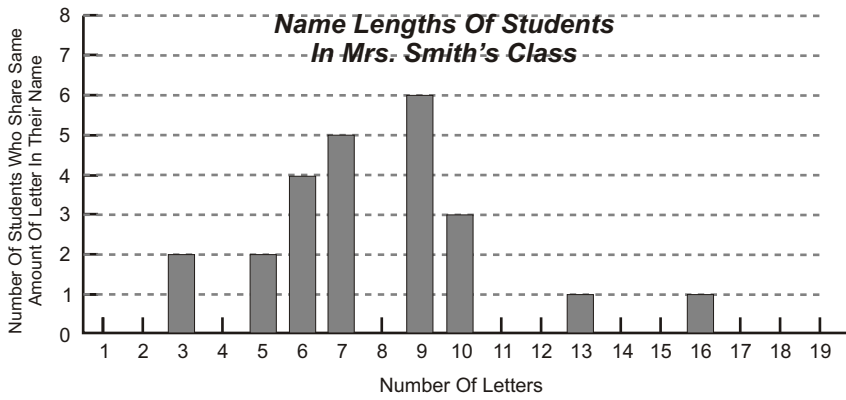
5) What is the **median** number of books read by the students in the line plot?



6) Three people on this graph have ten letters in their name. How many people have nine letters in their name?

7) How many letters in a persons name is the **mode**?

8) What is the **range** of name lengths in a person's name in the bar graph?



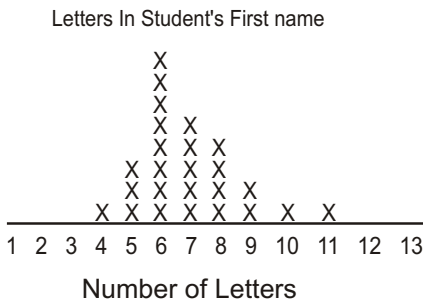
9) Is the data in the histogram numerical or categorical?

10) How many letters are in the longest name length?

11) Complete the list of people's name lengths. The list begins with two threes because there are two people with three letters in their name.

3, 3, 5, __, __, 6, 6, 6, __, __, 7, 7, __, __, __, 9, 9, 9, 9, __, 10, 10, 13, __

12) Now that the list in problem number 11 is complete, find the MEDIAN! _____



13) Is this a line plot or a bar graph?

14) Is the information **numerical or categorical**? Explain why.

15) What is the **range** of the data? (range of name lengths)

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Height in inches	48	66	60	60	61	55	52	56	62	69	65	52	68	62	62	62	51	63	52	60	69

16) What student is the shortest?: A) Student # 2 B) Student # 1 C) Student # 11 D) Student # 20

17) What is the **range** of heights of the 21 students? _____

18) What is the **mode** of student heights? _____

19) Find the **median** height of the 21 students. _____

20) What students are 60 inches tall? _____

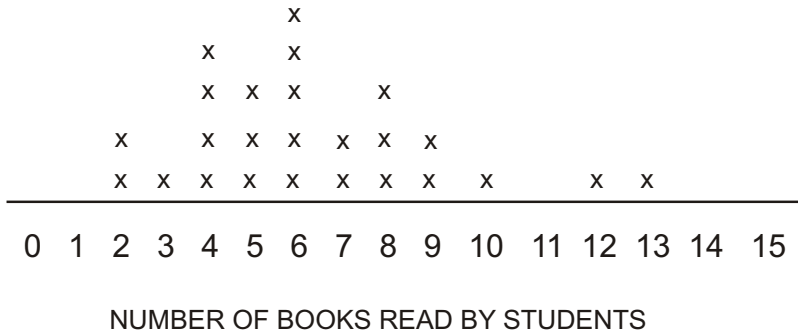
21) Is the information in the table above **numerical or categorical**? _____

Data Analysis

Median, Mode, Range, Line Plots, Histograms, Categorical and Numerical Data

BOOKS READ IN OCTOBER

x = one student



The line plot on the left shows how many books each student in Mrs. Ritter's class read in the month of October. Answer the next five questions about the data in the line plot.

1) How many students read 8 books?

three students

2) How many books read is the **mode**?

6 books read is the mode.

3) How many students are there total in this class?

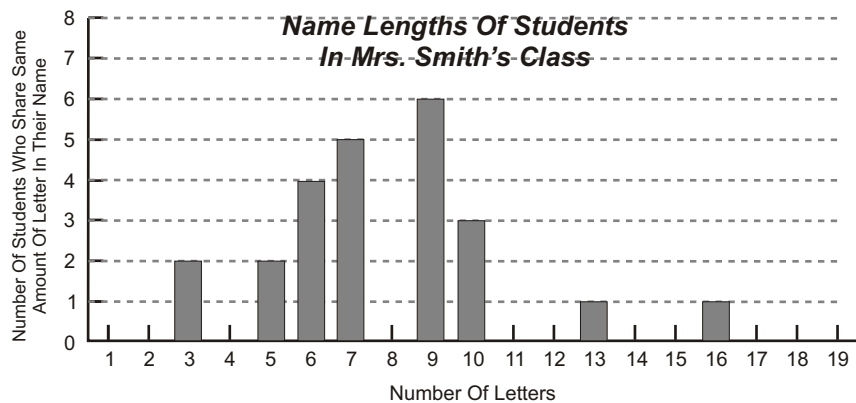
25 students

4) What is the **range** of the number of books read by the students in the class?

From 2 to 13 books or a range of 11 books.

5) What is the **median** number of books read by the students in the line plot?

6 books read is the median.



6) Three people on this graph have ten letters in their name. How many people have nine letters in their name?

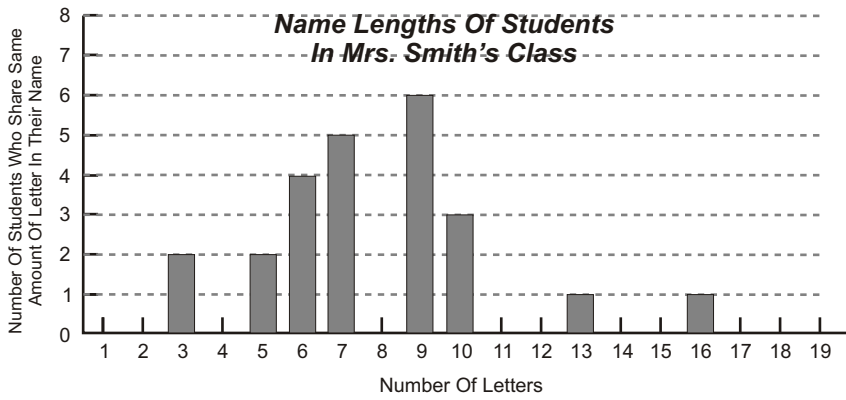
6 people have 9 letters in their name.

7) How many letters in a persons name is the **mode**?

The mode is 9 letters in a name.

8) What is the **range** of name lengths in a person's name in the bar graph?

The range of name lengths is from 3 to 16 or a range of 13.



9) Is the data in the histogram numerical or categorical?

numerical

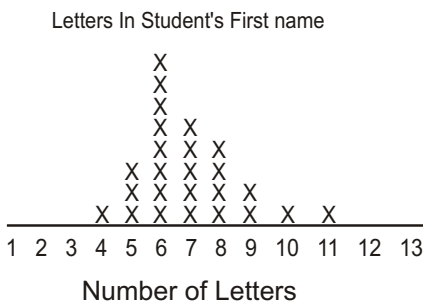
10) How many letters are in the longest name length?

16 letters

11) Complete the list of people's name lengths. The list begins with two threes because there are two people with three letters in their name.

3, 3, 5, 5, 6, 6, 6, 6, 7, 7, 7, 7, 7, 9, 9, 9, 9, 9, 9, 10, 10, 10, 13, 16

12) Now that the list in problem number 11 is complete, find the MEDIAN! 7 letters is the median.



13) Is this a line plot or a bar graph?

A line plot.

14) Is the information numerical or categorical? Explain why.

Numerical because name length can be measured or counted.

15) What is the range of the data? (range of name lengths)

From a length of 4 letters to 11 letters or a range of 7 letters.

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Height in inches	48	66	60	60	61	55	52	56	62	69	65	52	68	62	62	62	51	63	52	60	69

16) What student is the shortest?: A) Student # 2 B) Student # 1 C) Student # 11 D) Student # 20

17) What is the range of heights of the 21 students? From 48 to 69 inches or a range of 21 inches.

18) What is the mode of student heights? A height of 62 inches is the mode.

19) Find the median height of the 21 students. A height of 61 inches is the median.

20) What students are 60 inches tall? Student number 3, 4, and 20 are 60 inches tall.

21) Is the information in the table above numerical or categorical? It is numerical because height can be measured.