

# Frequency Tables and Line Plots

Officer Harris recorded the speeds of drivers on Elk Road. Here are the speeds he recorded:

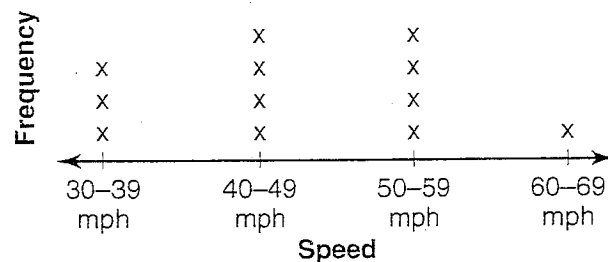
55 mph, 32 mph, 46 mph, 61 mph, 57 mph, 43 mph, 41 mph, 38 mph, 52 mph, 59 mph, 34 mph, and 47 mph.

He represented this data in a frequency table.

Speed	Tally	Frequency
30-39 mph	III	3
40-49 mph	IIII	4
50-59 mph	IIII	4
60-69 mph	I	1

Note that Officer Harris first made groups, or intervals. Then he made a tally mark for each data value and wrote how many tally marks there were for each group.

He then represented this data in a line plot.



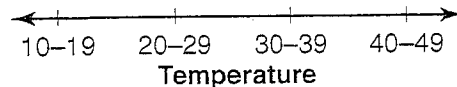
Most scores cluster in the 40s and 50s. There are no gaps in the data. The speed of 61 is different from the rest of the data, so it is an outlier.

Here are the lowest temperatures recorded in Mel's town, in °F:  
18, 43, 36, 39, 47, 35, 33, 32, 34, 42, 37.

- Complete the frequency table and line plot in order to represent this data.

Temperature (in °F)	Tally	Frequency
10-19		
30-39		
40-49 mph		3

Frequency



- Identify any clusters, gaps, and outliers.

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- Number Sense** What is the mean of the data above? \_\_\_\_\_

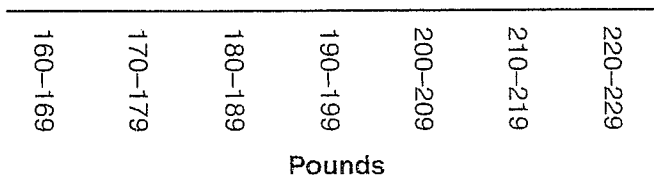
# Frequency Tables and Line Plots

1. Use the data set to complete the line plot.

Weights of Boxes

168	174	198	202	188
214	201	207	212	222
194	171	218	205	224

Frequency



The chart to the right shows the heights of U.S. mountains.

U.S. Mountain Heights in Meters

6,194	4,418	1,605	2,665	3,979	4,350
5,037	4,351	1,917	3,812	4,350	3,602

2. Use the data set to complete the frequency table.

U.S. Mountains

Height	Frequency

## Test Prep

3. Which of the following statements relating to line plots and frequency tables is not correct?
- A. The tallest column of Xs in a line plot indicates the mean of the data set.
  - B. An outlier in a data set is usually preceded, or followed, by a gap.
  - C. A line plot can be used to determine the mean, median, mode, and range of a data set.
  - D. An interval is a variable data range used to differentiate data sets.
4. **Writing in Math** Explain the relationship between gaps and outliers.

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