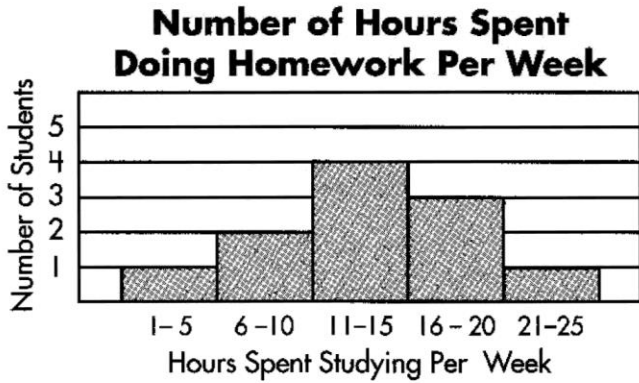


Data Display Review

A **histogram** is a type of bar chart in which the categories are consecutive and the intervals are equal.



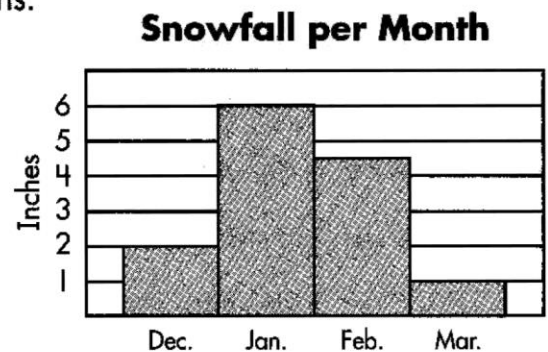
In this histogram, each bar represents an **interval** of 5 hours. The intervals are equal. The bars are **consecutive**, or in sequence one after the other.

Use the histogram above to answer each question.

1. How many students were surveyed? _____
2. Which two intervals (bars) were selected by an equal number of students? _____ and _____
How many students chose each of those intervals? _____
3. Which interval was selected by the most students? _____
4. How many more students do 16-20 hours of homework than 1-5 hours? _____

Use the histogram at the right to answer the following questions.

5. Which month had the most snowfall? _____
6. How many inches of snow fell in January through March? _____
7. How many more inches of snow fell in February than in March? _____
8. How many inches of snow fell in December? _____

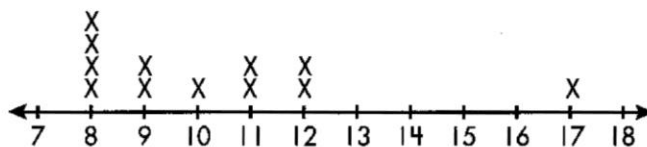


A **line plot** is a graph that shows the frequency of data on a number line. Line plots make it easy to identify the mode, range, and any outliers in a data set. **Outliers** are data points that are much larger or smaller than other values.

To make a line plot, draw a number line from the least to the greatest value in the number set. Then, make an x above each number every time it appears in the set.

Make a line plot for the following data:

8, 9, 11, 8, 10, 11, 8, 9, 12, 8, 17, 12



The mode is 8. The range is $17 - 8 = 9$.
17 is an outlier.

Answer the questions about the line plots below.

1. How many people responded to the sibling survey? _____

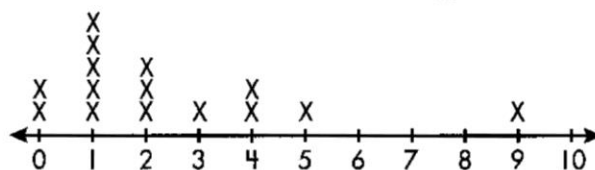
2. What is the mode of the sibling survey?
What is the range?

mode: _____ range: _____

3. How many people have 3 or more siblings? _____

4. What number is an outlier on the sibling survey? _____

Number of Siblings



5. How many people responded to the test survey? _____

6. What is the mode of the test survey?
What is the range?

mode: _____ range: _____

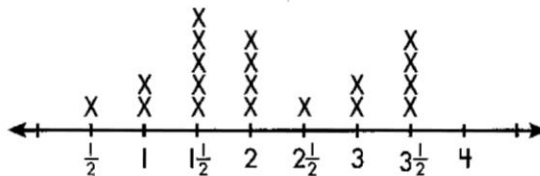
7. How many people studied 2 or fewer hours? _____

8. How many people studied 4 or more hours? _____

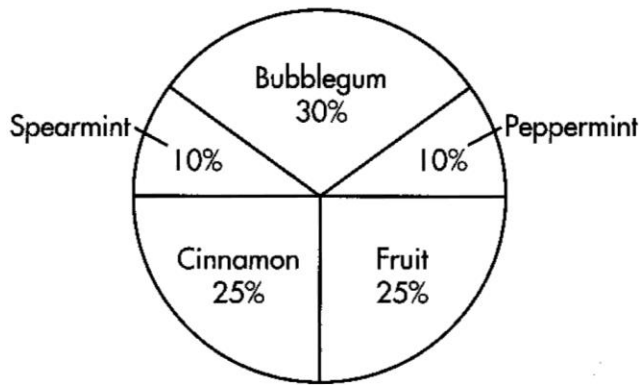
9. Did more people study 2 or more hours or less than 2 hours?

More people studied _____ hours.

Hours Studying For Test



A **circle graph** shows the relationship of parts to a whole. The circle is divided into sectors which add up to 100%. The sectors are determined by the central angles, and the sum of all those angles is 360° .



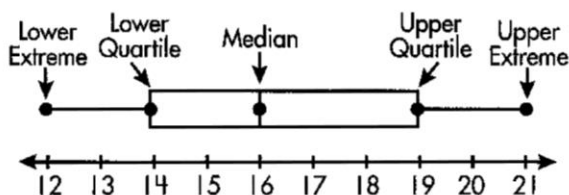
Favorite Gum Flavor

This circle graph shows the favorite gum flavor of 400 people. The sectors show the percent who prefer each flavor.

Use the circle graph above to answer each question.

1. Which flavor is preferred by the most people? _____
2. How many people prefer spearmint? _____
3. How many people prefer cinnamon? _____
4. Which flavor is preferred by the same number of people who prefer cinnamon? _____
5. Which two flavors combined account for exactly half of the people? _____
6. How many people prefer bubblegum? _____
7. What is the measure of the angle for the peppermint sector of the graph? _____
8. What is the measure of the angle for the fruit sector of the graph? _____
9. What is the measure of the angle for the bubblegum sector of the graph? _____

A **box-and-whisker** plot displays data along a number line. Quartiles are used to divide the data into four equal parts. Each quartile is 25% of the number of items. The upper and lower quartiles, representing 50% of the data, form the box. The upper extreme (highest value) and lower extreme (lowest value) form the whiskers.



This box-and-whisker plot represents the following data:

12, 13, 14, 14, 15, 16, 17, 18, 19, 19, 21

Upper Extreme: 21

Upper Quartile (median of upper half): 19

Lower Extreme: 12

Lower Quartile (median of lower half): 14

Middle Quartile (median): 16

Use the box-and-whisker plots below to answer the following questions.

1. What is the median number of miles walked? _____

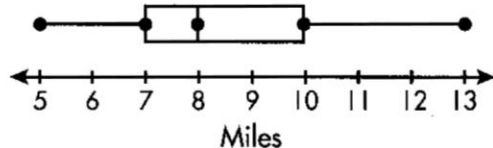
2. What are the lowest and highest numbers of miles walked?

lowest: _____ highest: _____

3. If 126 people participated in the walkathon, how many people walked 7–10 miles? _____

4. What percentage of the people walked more than 10 miles? _____

Miles Walked in Walk-a-Thon



5. What is the median number of books read? _____

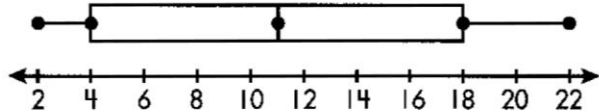
6. What is the upper quartile? _____

7. What percentage of the people who responded to the survey read 4 or fewer books? _____

8. What is the most number of books anyone read? _____

9. If 82 people responded to this survey, how many read from 4 to 18 books? _____

Books Read Over the Summer



A **stem-and-leaf** plot is used to arrange data in order from least to greatest. It is displayed in two columns. The right column shows the **leaves**—the ones digit of each number. The other digits form the **stems** and are shown in the left column. The **key** explains how to read the plot.

Use the following data to create a stem-and-leaf plot.

71, 73, 87, 106, 95, 73, 86,
99, 104, 82, 93, 74, 101, 90

Stem	Leaves
7	1 3 3 4
8	2 6 7
9	0 3 5 9
10	1 4 6

Key: 7 | 1 = 71

Create a stem-and-leaf plot for each set of data.

a

1. 18, 17, 12, 24, 17, 33, 21, 22, 14, 31,
30, 20, 16, 35

b

122, 120, 135, 130, 148, 131, 142, 122,
133, 143, 135, 132