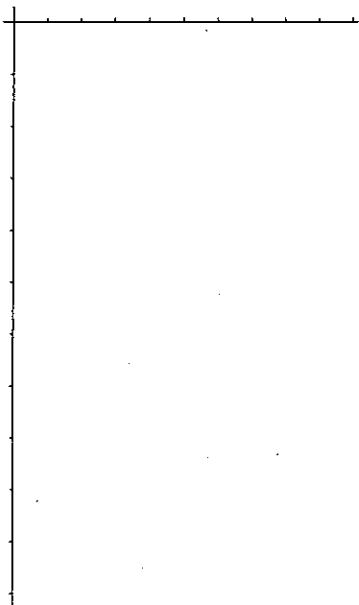


Use the Data Collection Information provided (listen for instructions) to complete the following tasks.

Eye Color	Blue	Brown	Green	Hazel	Other
# of Students with Characteristic	4	12	0	0	2

Make a *bar graph* of the eye colors in this classroom using the graph below:



A *bar graph* is useful to...

Definitions

maximum –

minimum –

range –

Eye Color Questions

- Which eye color is *most* popular (the maximum) in our classroom? _____
- Which eye color is *least* popular (the minimum) in our classroom? _____
- What is the *range* of this data? In other words, how many more students have the most popular eye color rather than the least popular eye color?

Algebra 1 – Bar Graphs and Dot Plots, continued

Shoe Size	5	6	7	8	9	10	11	12
# of Students with Characteristic	1	1	1	0	5	4	3	1

Make a *dot plot* of the shoe size comparisons of this classroom using the graph below:



A *dot plot* is useful to...

Shoe Size Questions

- What is the *maximum* of this data?
- What is the *minimum* of this data?
- What is the *range* of the given data?

Homework

Complete each graph on a separate sheet of paper. Then, state the *maximum*, *minimum*, and *range* of the given data.

- Make a bar graph of the following data (listen for instructions to fill in the table).

Favorite Type of Chewing Gum	Stride	5 Gum	Any Mint	Hubba Bubba	Trident	Other
# of Students with Characteristic	3	4	2	2	2	4

- Make a dot plot of the following data.

Average Number of Minutes to Complete an Assignment	25	30	35	40	45	50
# of Students with Characteristic	2	4	7	8	6	3

Lesson 1.1 • Bar Graphs and Dot Plots

Name _____ Period _____ Date _____

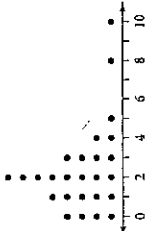
1. This table shows the heights of the ten tallest mountains in the world.

Mountain Heights

ID	Mountain, location	Height (ft)	ID	Mountain, location	Height (ft)
1	Everest, Nepal/Tibet	29,035	6	Lhotse II, Nepal/Tibet	27,560
2	K2, Kashmir	28,250	7	Dhaulagiri I, Nepal	26,810
3	Kanchenjunga, India/Nepal	28,208	8	Manaslu I, Nepal	26,760
4	Lhotse I, Nepal/Tibet	27,923	9	Cho Oyu, Nepal/Tibet	26,750
5	Makalu I, Nepal/Tibet	27,824	10	Nanga Parbat, Kashmir	26,660

(The World Almanac and Book of Facts 2004, p. 488)

- a. Find the minimum, maximum, and range of the data.
- b. Construct a bar graph for this data set. Use the ID numbers to identify the mountains.
2. The students in one social studies class were asked how many brothers and sisters (siblings) they each have. The dot plot here shows the results.
- a. How many of the students have six siblings?
- b. How many of the students have no siblings?
- c. How many of the students have three or more siblings?



Time (min)	2	3	5	6	8	10
Number of students	1	2	6	8	3	1

3. This table shows approximately how long it took members of Abdul's math class to complete a cross-number puzzle.
- a. Show this data on a dot plot.
- b. What is the range of the data?

4. The bar graph shows how much money the Zerihun family spent on various goods and services during 2005.
- a. On what did the Zerihun family spend the least amount of money?
- b. About how much did they spend on insurance?
- c. About how much more did they spend for groceries than for transportation?

