Discuss with your table:

Table Title: Percentage of trucks sold over last 10 years that are still on the road

Data Table:

Chevy:

Ford:

Toyota:

Nissan/Datsun:

Notes about this graph: The Graph shows . As a result, the difference between point appears much more significant. If that doesn’t make sense, we can go over it when we return.

Text below graph: More than 98% of all Chevy trucks sold in the last 10 years are still on the road. Over the years, no other trucks is that dependable, foreign or domestic.  
Chevrolet. The Most Dependable, Longest-Lasting trucks.  
LIKE A ROCK

What do you notice about the bar graph?

What is misleading about the bar graph?

Table 2: This is the same graph, with the same data. However, this graph shows as a result. The gap of appears to be much less significant.

Lesson 9.1 Reading Graphs & Making Dotplots

1.) The Bar Graph below shows the results of a survey asking people their favorite types of ice cream.

Data Table for graph.

Chocolate Ice Cream: 40

Vanilla Ice Cream: 20

Strawberry Ice Cream: 30

Cookies and Cream: 10

a) What do you notice about people’s favorite Ice Cream?

b) How many people chose Vanilla? 20

c) How many people chose strawberry? 30

d) what would you recommend to the local store about how to stock their ice cream freezer?

Example: Since most people like chocolate and strawberry, it would be smart to have mostly those flavors. It would also be good to keep a small amount of the other flavors in order to satisfy everyone.

2) The dotplot below shows the results of a survey asking people their favorite type of movie:

Each dot represents 1 person.

Comedy: 4

Action: 5

Romance: 6

Drama: 1

SciFi: 4

a) What do you notice about peoples favorite movie?

Example: Romance and action are the most popular choices. Drama appears to be the least popular out of all the options.

b) How many people chose SciFi? 4

c) How many people chose comedy? 4

d) If a small movie theatre can only show 2 movies at a time, what would you recommend they show?

Romance and action.

3) the HISTOGRAM below shows the ages of the professors at a university:

32 years old: 2.5%

Between 32 and 40 years old: 2.5%

40 years old: 5%

Between 40 and 48 years old: 7.5%

48 years old: 12.5%

Between 48 and 56 years old: 17.5%

56 years old: 20%

Between 56 and 64 years old: 25%

64 years old: 7.5%

a) what do you notice about the professors ages?

The majority of the professors at this university are over 50 years old.

b) Are there more older professors or more younger professors? Explain

Older. The percents/frequencies are higher for many of the older ages than younger ages.

c) Do you think the university should hire more teachers of a certain age? Why or why not? GIVE YOUR OPINION.

4) The BAR GRAPH below compares the pretest (qui) and test scores of 4 students.

Jeff pretest score: 60

Jeff Test score: 70

Peter pretest score: 75

Peter Test score: 90

John pretest score: 55

John Test score: 55

Mary pretest score: 80

Mary Test score: 90

a) What do you notice about the students scores?

Example: Most students were able to improve their scores. John was the only person who scores stayed the same.

b) Compare Jeff and Mary.

Both improved by 10%. Mary had higher scores than Jeff overall.

c) Compare Peter and Mary.

Peter improved more between tests than Mary. They both got a 90% on the test.

d) Describe what happened to John’s scores.

They stayed the same (and both were low)

5) The DOTPLOTS below show the test scores of two classes. Each dot represents one student’s score.

Class 1

87: 3

88: 2

89: 2

90: 2

92: 1

93:1

96: 1

97: 1

98: 2

Class 2

81: 1

84: 3

86: 1

88: 2

90: 4

91: 1

92: 2

98: 1

99: 1

100: 3

a) What do you notice about the two classes’ scores?

b) how many students got an A (90 or higher) in each class?

Class 1: 8

Class 2: 12

c) How many students got an A+ (98 or higher) in each class?

Class 1: 2

Class 2: 5

d) in class 1, did more students get B’s or (80-89) or A’s (90-100)?

A’s

e) in class 2, did more students B’s (80-89) or A’s (90-100)? A’s

f) Which class do you think did better on the test? Why? YOUR OPINION

Class 2 had more high scores than class 1, but class 2 also had the lowest sore. You decide who you think did better.

6) Make a DOTPLOT. Below are the number of pets for students in a class. Mark a dot above the number for each student with that number pets.

0 1 3 6 0 2 3 4 1 1 2 0

a) what do you notice about the students pets?

Most students had 0 or only 1 pet. Only one student had many pets (6)

b) what is the most common number of pets for this class?

0 and 1