

Name Key

Date _____

Assessment 10 Review Guide (Calculators Allowed)

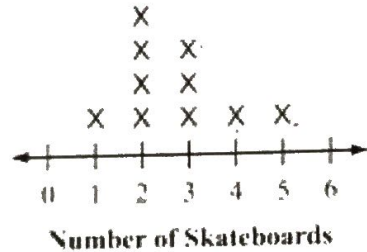
6.SP.2 Data Displays

6.SP.3 Measures of Center and Variability

6.SP.4 Dot Plots and Box & Whisker Plots

6.SP.5 Summarize and Describe Data

1. A group of students were surveyed to determine how many skateboards they owned, shown in the dot plot. Determine the mean, median, mode, and range for the set of data.

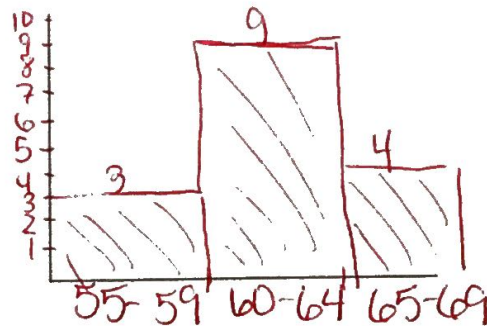


Mean 2.7 Mode 2
 Median 2.5 Range 4

2. The follow data represents the heights, in inches, of some students at North East Middle School. Use the data to fill in the frequency table and make a histogram.

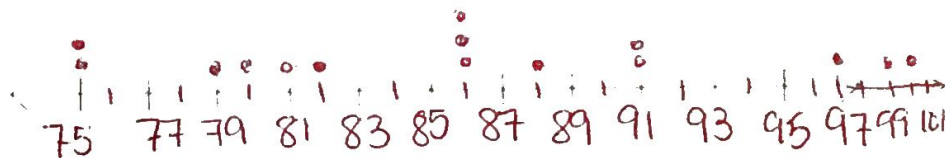
60, 63, 57, 63, 68, 61, 64, 59, 62, 67, 68, 61, 60, 59, 62, 68

Age	Frequency
55 - 59	3
60 - 64	9
65 - 69	4



3. Sharon's Quiz Scores: 86, 97, 99, 100, 75, 91, 79, 80, 82, 88, 86, 75, 86, 91, 81

- a) Create a dot plot of the data.



- b) How many quizzes did Sharon take? 15

- c) Determine the mean, median, mode, and range of the data set. Show how you determined your answers.

Mean 86.4 Mode 86
 $1296 \div 15$
 Median 86 Range 25

4. The colors of cars at NEMS are given in the frequency table. What is the most common color represented?

Red

5. How many cars are represented?

36

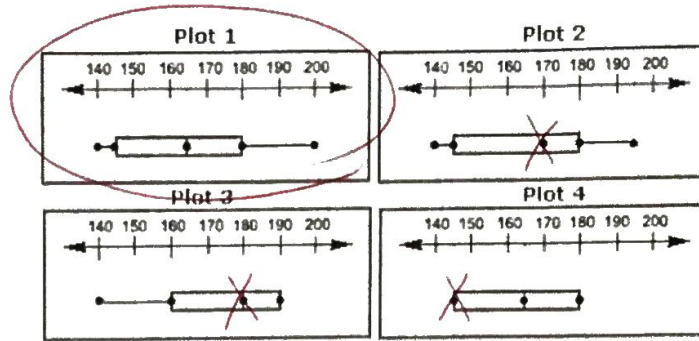
colour of car	tally	frequency
red		11
blue		5
green		8
black		4
white		1
other		7
total		36

Name _____

Date _____

6. The data below shows the heights of mountains in the U.S. Which box and whisker plot correctly displays the data? **Show your work.**

Name	Height (in 100 ft.)
Mt. McKinley	200 Max
Mt. St. Elias	180 UQ
Mt. Foraker	175
Mt. Bona	165 Med
Mt. Blackburn	160
Mt. Alverstone	145 LQ
Sunshine Peak	140 Min



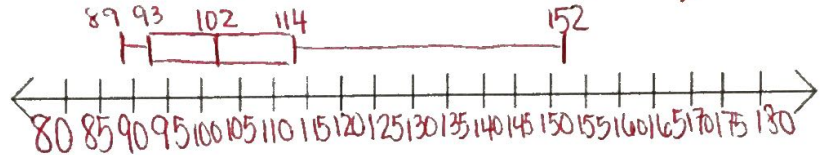
7. The data values on the table below depict the number of televisions sold at a department store each month for nine months.

April	May	June	July	August	September	October	November	December
110	98	91	102	89	95	108	118	152

a) Determine the five number summary, then create a box and whisker plot.

Minimum:	89
Lower Quartile:	93
Median:	102
Upper Quartile:	114
Maximum:	152

(89, 91, 95, 98) | (102) | (108, 110, 118, 152)



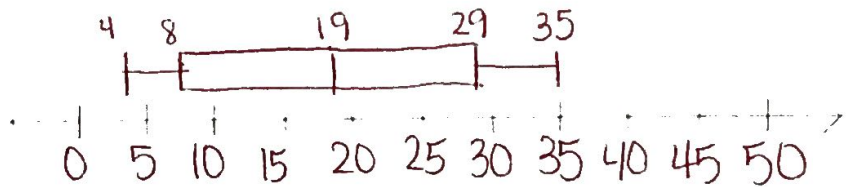
b) What percent of the data is between the lower quartile and median? 25%

c) What is the interquartile range for the average number of televisions sold each month? 21

8. (4, 6, 7, 9, 15, 18) | (20, 23, 27, 31, 33, 35)

a) List the 5 number summary and the interquartile range, then draw a box-and-whisker plot.

Minimum:	4
Lower Quartile:	8
Median:	19
Upper Quartile:	29
Maximum:	35
Interquartile Range:	21



b) What percent of the data lies between the upper quartile and the maximum? 25%

c) What percent of the data lies between the lower quartile and the upper quartile? 50%

d) What percent of the data falls above the median? 50%