

Bellwork Alg 2B Wednesday, April 25, 2018

1. Use this data: 67, 43, 55, 23, 18, 51, 43, 72, 59, 62, 23, 20, 37, 38, 46, 58

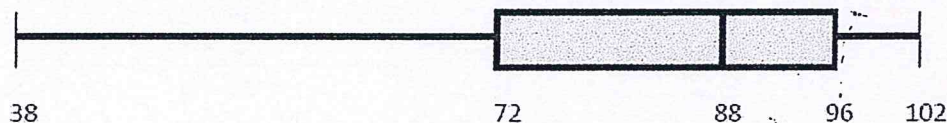
- Find the Mean, Median, and Mode.
- Make a Box-and-Whisker Plot
- What percent of the data is between 30 and 72?

2. Make a set of 10 numbers with the following statistics:

$$\bar{x} = 39.5 \quad \text{Median} = 34 \quad \text{Mode} = 21, 57 \quad \text{Range} = 70$$

3. Refer to the following Box-and-Whisker Plot that shows the test results of a math class.

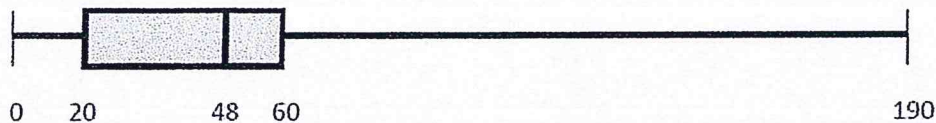
Test Scores (as %) for 6th Period



- What was the high score on the test?
- What percent of the class scored above a 72?
- What was the median score on the test?
- What percent scored between 88 and 96?
- Do you think that this test was too hard for the students? Explain.

4. Refer to the following Box-and-Whisker Plot that shows how much time was spent per night on the homework for a freshman class during September.

Average Minutes per Night Spent on Homework



- What percent of the freshmen spend more than 60 minutes on homework per night?
- What is the range of times that the middle 50% of the freshmen spend on homework per night?
- What percent of the freshmen spend less than 20 minutes per night on homework?
- Would you expect the mean number of minutes per night to be higher or lower than the median? Explain.

1. Use this data: 67, 43, 55, 23, 18, 51, 43, 72, 59, 62, 23, 20, 37, 38, 46, 58

a) Find the Mean, Median, and Mode.

$\bar{x} = 44.6875$

med = 44.5

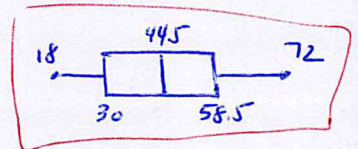
mode = 23, 43

b) Make a Box-and-Whisker Plot

min = 18 $Q_1 = 30$ Med = 44.5 $Q_3 = 58.5$ max = 72

c) What percent of the data is between 30 and 72?

75%



2. Make a set of 10 numbers with the following statistics:

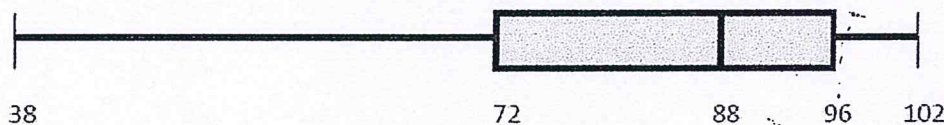
$\bar{x} = 39.5$ Median = 34 Mode = 21, 57 Range = 70

one possible answer is Below

10, 21, 21, 25, 33, 35, 56, 57, 57, 80

3. Refer to the following Box-and-Whisker Plot that shows the test results of a math class.

Test Scores (as %) for 6th Period



a) What was the high score on the test? 102

b) What percent of the class scored above a 72? 75%

c) What was the median score on the test? 88

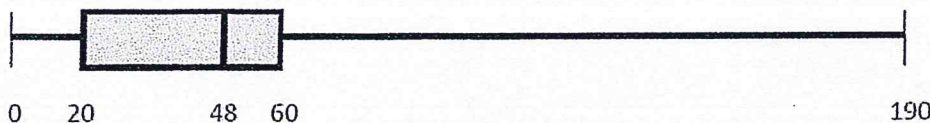
d) What percent scored between 88 and 96? 25%

e) Do you think that this test was too hard for the students? Explain.

NO, half the class got 88 (B+) or higher

4. Refer to the following Box-and-Whisker Plot that shows how much time was spent per night on the homework for a freshman class during September.

Average Minutes per Night Spent on Homework



a) What percent of the freshmen spend more than 60 minutes on homework per night? 25%

b) What is the range of times that the middle 50% of the freshmen spend on homework per night? 40 min

c) What percent of the freshmen spend less than 20 minutes per night on homework? 25%

d) Would you expect the mean number of minutes per night to be higher or lower than the median?

Explain. probably higher due to the 190, which may be an outlier.