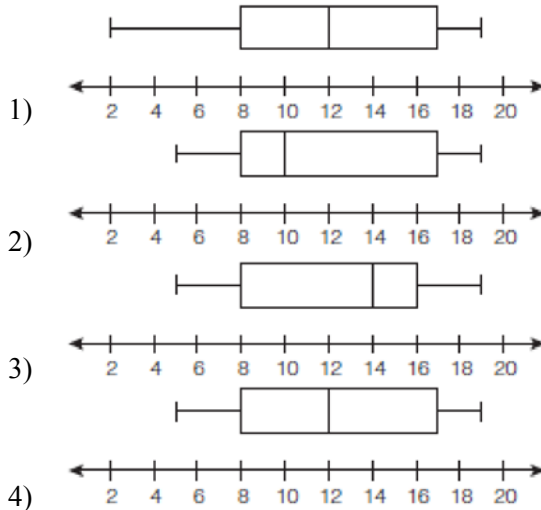
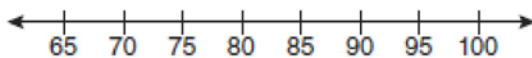


A.S.5: Box-and-Whisker Plots: Construct a histogram, cumulative frequency histogram, and a box-and-whisker plot, given a set of data

- 1 The data set 5, 6, 7, 8, 9, 9, 9, 10, 12, 14, 17, 17, 18, 19, 19 represents the number of hours spent on the Internet in a week by students in a mathematics class. Which box-and-whisker plot represents the data?



- 2 The test scores from Mrs. Gray's math class are shown below.
72, 73, 66, 71, 82, 85, 95, 85, 86, 89, 91, 92
Construct a box-and-whisker plot to display these data.



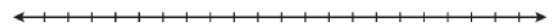
- 3 Using his data on annual deer population in a forest, Noj found the following information:
25th percentile: 12
50th percentile: 15
75th percentile: 22
Minimum population: 8
Maximum population: 27
Using the number line below, construct a box-and-whisker plot to display these data.



- 4 The number of songs fifteen students have on their MP3 players is:

120, 124, 132, 145, 200, 255, 260, 292,
308, 314, 342, 407, 421, 435, 452

State the values of the minimum, 1st quartile, median, 3rd quartile, and maximum. Using these values, construct a box-and-whisker plot using an appropriate scale on the line below.

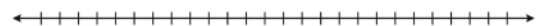


- 5 Using the line provided, construct a box-and-whisker plot for the 12 scores below.
26, 32, 19, 65, 57, 16, 28, 42, 40, 21, 38, 10



Determine the number of scores that lie above the 75th percentile.

- 6 During the last 15 years of his baseball career, Andrew hit the following number of home runs each season.
35, 24, 32, 36, 40, 32, 40, 38, 36, 33, 11, 20, 19, 22, 8
State and label the values of the minimum, 1st quartile, median, 3rd quartile, and maximum. Using the line below, construct a box-and-whisker plot for this set of data.



A.S.5: Box-and-Whisker Plots: Construct a histogram, cumulative frequency histogram, and a box-and-whisker plot, given a set of data

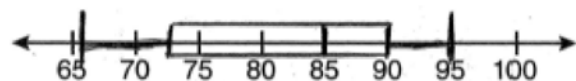
Answer Section

1 ANS: 2

The median score, 10, is the vertical line in the center of the box.

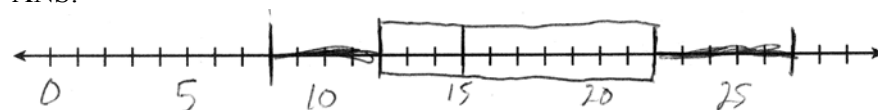
REF: fall0709ia

2 ANS:



REF: 080939ia

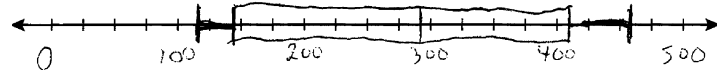
3 ANS:



REF: 081431ia

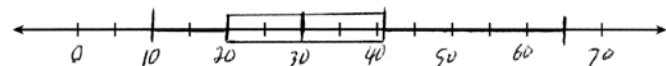
4 ANS:

minimum is 120, 1st quartile is 145, median is 292, 3rd quartile is 407, and maximum is 452



REF: 081034ia

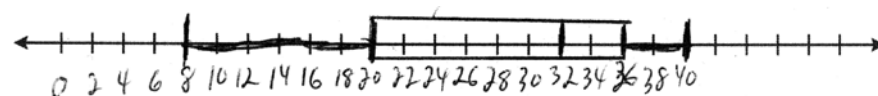
5 ANS:



. Three scores are above 41.

REF: 011337ia

6 ANS:



Min: 8, Q1: 20, Med: 32, Q3: 36, Max:

40

REF: 061439ia