

Grade 6 - Mean, Median, Spread and Box Plots - Test

Common Core 6.SP.A.3, 6.SP.B.5c, 6.SP.B.5d · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers mean, median, MAD, quartiles, box plots, and comparing data sets (Common Core 6.SP.A.3 and 6.SP.B.5). Show your work for full credit.

About this test

- Grade: Grade 6
- Chapter: Mean, Median, Spread and Box Plots
- Standards: 6.SP.A.3, 6.SP.B.5c, 6.SP.B.5d
- Time: 45 minutes
- Total: 20 points

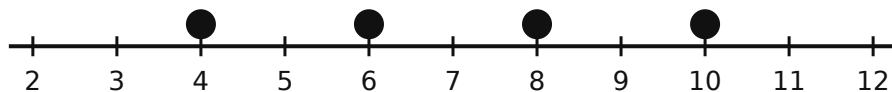
Question 1 - Mean and median [2 pts]

Find the mean and median of 6, 9, 7, 8, 5.

Question 2 - Even-sized set [2 pts]

Find the median and mode of 3, 7, 4, 10, 6, 6.

Question 3 - MAD [2 pts]



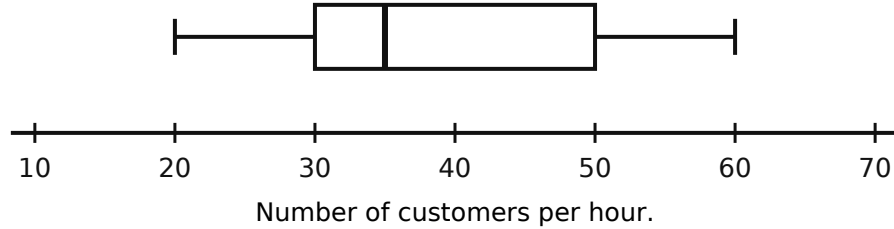
The mean is 7.

Find the mean absolute deviation of 4, 6, 8, 10.

Question 4 - Box plot [2 pts]

Find the five-number summary of 1, 3, 4, 6, 7, 9, 10, 12 and draw a box plot.

Question 5 - Read a box plot [2 pts]



Find the median, the range, and the IQR.

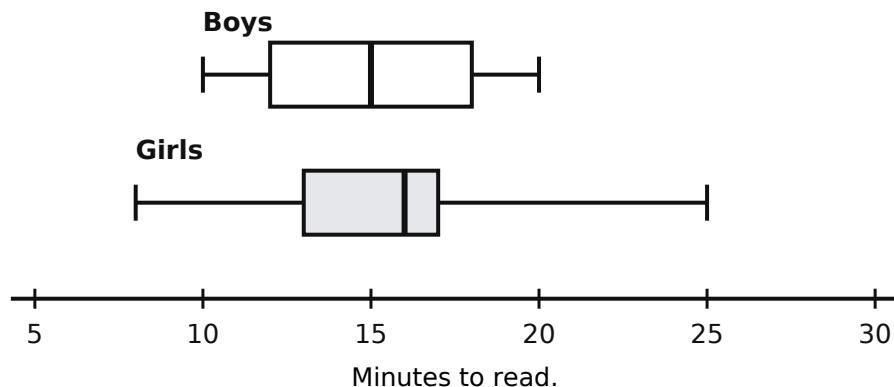
Question 6 - Outlier [2 pts]

The data 10, 11, 12, 12, 13, 60 include an outlier. Which measure of center better describes the data, the mean or the median? Support your answer with values.

Question 7 - Missing score [2 pts]

The mean of six test scores is 82. Five of the scores are 78, 85, 90, 76, and 80. Find the sixth score.

Question 8 - Compare [3 pts]



Compare the medians and IQRs. Which group has the greater typical time? Which has the greater spread (IQR)?

Question 9 - Describe the data [3 pts]

A student recorded the number of text messages sent each day for a week: 12, 15, 11, 14, 13, 12, 41. Find the mean and median, find the MAD of the first six values only (12, 15, 11, 14, 13, 12), and explain which measure of center you would report.