

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 26: Math IBSL - Standard 25 - Measures of Dispersion (day 1)

5 points

- 5 This table shows the number of passengers in each of 16 cars.

People	2	3	4	5	6
Cars	6	3	3	2	2

Find the interquartile range.

- 6 The data below is listed in ascending order:

5, 6, 7, 7, 9, 9, r , 10, s , 13, 13, t

The median of the data is 9.5. The upper quartile Q_3 is 13.

- a Write down the value of:

i r

ii s

- b The mean of the data is 10. Find the value of t .

- 4 Test scores for an IB morning exam are:

99, 56, 78, 55.5, 32, 90, 80, 81, 56, 59, 45,
77, 84.5, 84, 70, 72, 68, 32, 79, 90

Test scores for an IB afternoon exam are:

98, 78, 68, 83, 81, 89, 88, 76, 65, 45, 98,
90, 80, 84.5, 85, 79, 78, 98, 90, 79, 81, 25.5

- a Draw a box-and-whisker plot for each data set. Use one number line for both plots, and draw one above the other.
- b State which examination has the greatest spread for the middle 50%.