

Year Ten Advanced Homework Sheet 6 Term 2

Statistics- Grouped Data

Name: _____

Due Date: _____

The following vehicle speeds were recorded in a 100km/h zone by police radar during a 30 minute observation of highway drivers

90	112	97	110	90	93	90	106	98	95
89	90	112	108	103	112	90	88	85	83
104	110	110	110	97	110	107	112	107	93
92	92	117	93	98	120	104	98	113	103

- Produce a stem and leaf plot to order the data
- Tabulate this data in a frequency table. Use class intervals of 5km/h.
- Calculate the mean speed by adding two extra columns to the frequency table.
- Add a cumulative frequency table (leave out the zero value for < 80).
- Draw a cumulative frequency curve to estimate the median.
- Find the mode and the modal class.
- Which of the three statistics, mean, median or mode, seems to be the most central of the measures? Explain why.
- Produce a BoxPlot.