Math 153 - Quiz 4

February 19, 2015

Name_	key		
	J	Score	

Show all work to receive full credit. Supply explanations when necessary.

1. (6 points) The numbers below show the points scored by the Chicago Bulls in their 2012–2013 season playoff games (in the order in which they occurred).

Compute the five-number summary, the interquartile range (IQR), and the cutoff values for outliers.

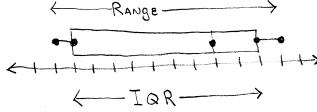
65, 78, 79, 89, 90, 91, 91, 92, 93, 94, 99, 142
$$Q_{1} = \frac{79+89}{3} \quad \text{MEDIAN} = 91 \quad Q_{2} = \frac{93+94}{3}$$

$$= 84 \quad = 93.5$$

$$M_{IN} = 65$$
 $Q_3 = 93.5$
 $Q_1 = 84$ $M_{AX} = 142$
 $M_{EO} = 91$ $IQR = 93.5-84$
 $= 9.5$

Cutoffs: 84-1.6(9:5) = 69.75 93.5+1.5(9.5) = 107.75

2. (2 points) Sketch a boxplot corresponding to a data set whose IQR is only a bit smaller than its range.



3. (2 points) Sketch a boxplot corresponding to a data set whose 1st quartile is only a bit smaller than its median, but a lot smaller than its 3rd quartile.

