

Math 110 Final Exam Review

6. a) $\bar{x} = 62.49$

b) $s = 5.47 \rightarrow$ Average deviation from the mean.

c) $\tilde{x} = \text{median} = 63.6$

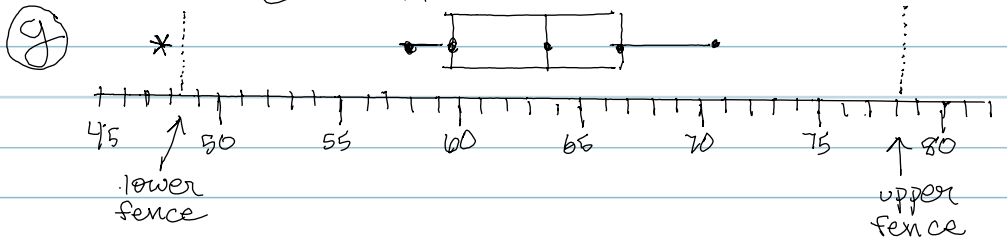
d) $\text{mean} < \text{median} \rightarrow$ The distribution is skewed left.

e) $\min = 47.7, Q_1 = 59.4, \tilde{x} = 63.6, Q_3 = 66.9, \max = 70.7$

$1QR = Q_3 - Q_1 = 66.9 - 59.4 = 7.5$

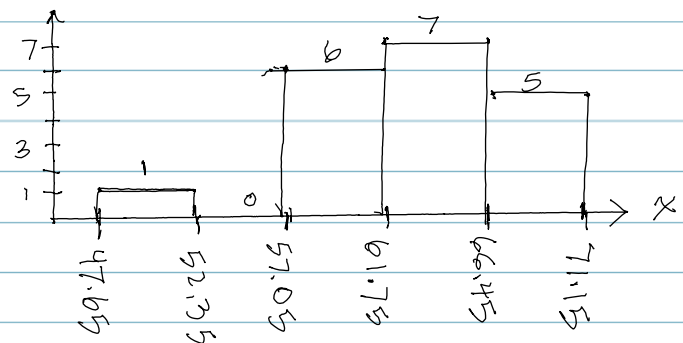
f) $\text{upper} = Q_3 + 1.5 \cdot 1QR = 66.9 + 1.5 \cdot 7.5 = 78.15$

$\text{lower} = Q_1 - 1.5 \cdot 1QR = 59.4 - 1.5 \cdot 7.5 = 48.15$



h)

Class	Tally	Freq.
47.7-52.3	I	1
52.4-57.0		0
57.1-61.7	IIII	6
61.8-66.4	IIIIII	7
66.5-71.1	IIII	5



i) Shape $\rightarrow$ skew left

Spread $\rightarrow$ 47.7 to 70.7 $\rightarrow$ Range = 23

std. dev = 5.47

1QR = 7.5

We guessed the distrib.
would be skewed left.