

Name _____ Date _____ Period _____

1. The grade point averages for 20 students are listed below.

2.0 3.2 1.8 2.9 1.9 4.0 3.3 2.9 3.6 0.8
 3.1 2.4 2.4 2.3 1.6 1.6 4.0 3.1 3.2 1.8

a) Find the 5-number summary:

Minimum	Q1	Median	Q3	Maximum

b) Calculate the IQR (Interquartile Range) _____

c) Determine the upper and lower boundaries for outliers:

Lower ($Q1 - (1.5 \cdot IQR)$): _____

Upper: ($Q3 + (1.5 \cdot IQR)$): _____

d) Construct a boxplot of this data:



2. The heights of 14 adult males are listed below.

70 65 75 69 68 64 69
 69 66 71 68 67 73 68

a) Find the 5-number summary:

Minimum	Q1	Median	Q3	Maximum

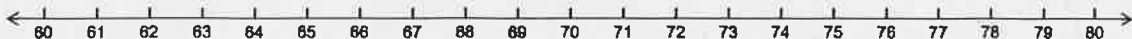
b) Calculate the IQR (Interquartile Range) _____

c) Determine the upper and lower boundaries for outliers:

Lower ($Q1 - (1.5 \cdot IQR)$): _____

Upper: ($Q3 + (1.5 \cdot IQR)$): _____

d) Construct a boxplot of this data:



3. The Highway Patrol, using radar, checked the speed (in mph) of 20 passing motorists at a checkpoint. The results are listed below.

44 48 41 50 36 39 43 42 49 48
 42 40 37 41 43 50 45 45 49 48
 50 41 47 36 45 40 42 43 48 30

- a) Find the 5-number summary:

Minimum	Q1	Median	Q3	Maximum

- b) Calculate the IQR (Interquartile Range) _____

- c) Determine the upper and lower boundaries for outliers:

Lower ($Q1 - (1.5 \cdot IQR)$): _____

Upper: ($Q3 + (1.5 \cdot IQR)$): _____

- d) Construct a boxplot of this data:

