Key	
Math	1
7-2 P	ractice

Name	
•	Date

1. In the 2007 NBA Playoffs LeBron James played in 20 games. His points scored during the 2007 NBA Playoffs are as follows:

23, 27, 30, 31, 21, 36, 18, 30, 20, 23, 10, 19, 32, 25, 48, 20, 14, 25, 25, 24

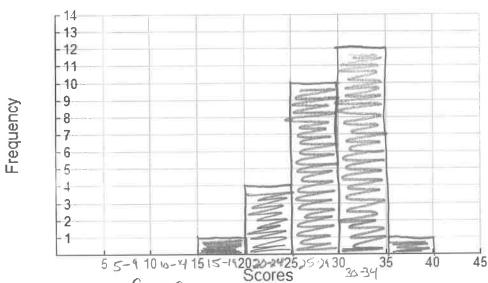
a. Use your calculator to find the Five Number Summary.

$$Min = 10$$
, $Q = 20$, $Median = 24.5$, $Q_3 = 30$, $Max = 48$

b. Use the five number summary to algebraically calculate any outliers. **SHOW ALL WORK**

c. Find LeBron's average points per game in the 2007 NBA Playoffs.

2. The data below are the grades out of 50 from a test given earlier this year. Create a histogram below.



a. Describe the distribution.

Shape: Slewed left arthers: Possibly 18 Center: About 25-30 Soreal: 35-18=17 3. In the 2007 NBA Playoffs Zydrunas Ilgauskas played in 20 games. His points scored during the 2007 NBA Playoffs are as follows:

16, 16, 24, 20, 8, 13, 11, 13, 16, 6, 22, 3, 16, 9, 16, 11, 2, 9, 12, 8

a. Use your calculator to find the Five Number Summary.

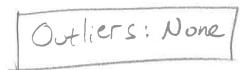
Min=2, Q=8,5, Median=12,5, Q3=16, Max=24

b. Use the five number summary to algebraically calculate any outliers.

SHOW ALL WORK

L.F.: 8,5-1,5(7,5)=-)75

U.F.:16+1.5(7.5)=27.25



c. Find Z'a average points per game in the 2007 NBA Playoffs.

Mean = X = 1255 points/garre

d. Create 2 box plots for the points scored by LeBron and Zydrunas in the 2007 NBA Playoffs.

10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

e. Describe the distributions of the box and whisker plots that you created above.

Lebron Skewed right (because of outlier) Outlier: 48

Censer: Media = 24.5

Approximately normal No outliers Median - 125

 $\frac{7QR = 10}{4}$. According to the statistics, which player would be better to have on a team? Support your answer

Lebron! He tends to score more points overall than Z does. He's a little less consistent (more spread/variation), but