The Game of Greed – Lab

Name ____________________________
AP Statistics Date __________________ Hr ______

The Game Rules – Everyone stands. Mrs. T throws the die twice and totals the numbers.
This is everybody’s current score. Those that are happy with that score sit down and record
that score as they are finished with that round. For the others that are still standing, the die
is rolled again. If the die is 1, 3, 4, 5, or 6, that number is added to their past total. If it is a
2, the game is over and all those still standing receive a 0 for that round. A game consists of
5 rounds. The total game score is the sum of the scores for the 5 rounds.

Record your data here:
Round 1= ___________  Round 2= ___________  Round 3= ___________
Round 4= ___________  Round 5= ___________  TOTAL = ___________

Record your total and your gender on the board.

Write down the class data here:
Males: ________________________________________________

Females: __________________________________________________________________________

1. From the information above, construct a back to back stemplot for the data of game
totals based on gender. Make sure that your stemplot has a key!

2. Compare the distributions of game totals based on gender.
3. Are there any outliers in the male’s totals? Justify your answer by showing work.

4. Are there any outliers in the female’s totals? Justify your answer by showing work.

5. Construct side-by-side modified boxplots for the males vs. females game totals. Don’t forget your scales and labels!

6. Name at least one benefit the stemplot has over the boxplot. Name at least one benefit the boxplot has over the stemplot.

7. For your gender’s data, find the mean and median.
   Mean __________________  Median __________________
   Which is a better description of the center? Why?

8. For your gender’s data, find the range, IQR, and standard deviation.
   Range _____________  IQR _____________  Standard Deviation _____________
   Which is a better description of the spread? Why?