

## Aussie Open Worksheet

Name: \_\_\_\_\_

In the 2010 Australian Open, Professional Tennis's first Major tournament of the year, Roger Federer defeated Andy Murray in the Men's Singles Final:

Set	1	2	3
Roger Federer	6	6	7
Andy Murray	3	4	6

Andy Murray won a total of  $3 + 4 + 6 = 13$  games in the entire match. In the past 11 years (2000-2010), the runner-up has won the following total number of games in the final:

Year	00'	01'	02'	03'	04'	05'	06'	07'	08'	09'	10'
Games Won	15	8	20	7	12	17	14	14	19	25	13

Sorted in Increasing order the values of "Games Won" are:

7, 8, 12, 13, 14, 14, 15, 17, 19, 20, 25.

## Questions

1. Make a Stem and Leaf Display for the Number of Games won by the Runner-up.

0	
1	
1	
2	
2	

Key:

2. Calculate a 5 – number summary of "Games Won" by the runner-up.

min: \_\_\_\_\_  
     $Q_1$  \_\_\_\_\_  
median: \_\_\_\_\_  
     $Q_3$ : \_\_\_\_\_  
max: \_\_\_\_\_

3. Calculate the Mean of "Games Won". (Hint:  $\sum x = 164$ )
4. The Australian Open Final is this Sunday, January 30. Using the information from the previous questions, give an interval which you believe will contain the number of games that the runner-up wins in the Final.

Lower: \_\_\_\_\_ Upper: \_\_\_\_\_

*Your interval will be graded on (1) if the interval contains the true value and (2) the **width** as compared to other intervals submitted by your classmates. The shortest interval containing the true value wins.*