Name

**Data Collection & Analysis Reflection**

*Directions: After completing the monk parakeet data set summary, complete the reflection question set below and save the file in your “Completed Work” folder.*

**PART ONE. Data & Human Population Analysis**

1. Define data in your own words, as well as the two major forms of data we can record.

2. When representing this data in graphical format, what elements must be part of the graph or chart to show all necessary information for a reader?

3. How did you see data portrayed in the 2015 Population Data Sheets? Where did you find the best presentation of data and why?

4. Describe in detail how you used the data present in the 2015 Population Data Sheets to compare the three countries.

**PART TWO. Monk Parakeet Data Analyses**

*Directions: The 4 tables in the accompanying MS Excel doc will help you complete the directions below. This will be a data churning effort that the questions below will be based on.*

*(a) Summarize the monthly 2005/2006 data into the* ***POOLED*** *monthly data within the blue rows in Table 1. This* ***RAW*** *data will be used to create all of your* ***SUMMARIZED*** *tables (Tables 3-5)*

*(b) create a seasonal summary table (Table 2) and the corresponding percentage table (using your fx function insert tool) in the light green table (Table 3).*

*(c) create a monthly pooled data set in the blue table (Table 4).*

5. When monitoring an organism’s time-activity budget, what graph can you use to represent what part of each day is spent engaging in each behavior? Create one and copy and paste it below.

6. When you create a 12 month graphical representation of the quantitative data in the table, describe what month each of the 7 behaviors are most observed and what month they are observed the least? After you’ve identified peak and low monthly & seasonal levels for each activity, create two bar graphs summarizing (1) the 12-month levels of each behavior in one graph (12 sets of bars) and (2) the breakdown by season (4 sets of bars). Paste the graphs below.

*Locomotion*

*Nest Maintenance & Building*

*Scanning (Vigilance)*

*Perching, Resting, or Sunning*

*Grooming*

*Foraging*

*Socializing*

7.