**Practice graphing data sets… Cuz’ practice makes you a rockstar!!**

**Scenario One:**

Mr. F was a wildlife biologist and had to analyze two characteristics of monk parakeet nests: the size and the composition of sticks that the birds used to make the nests. Mr. F analyzed 5 nests. Nest 1 was made with 405 twigs, nest 2 with 2043 twigs, nest 3 with 898 twigs, nest 4 with 675, and nest 5 with 1090 twigs. Mr. F had his assistant count and seperate all the twigs in nest 2 and she came up with the following composition: 1409 Norway maple twigs, 523 adult black locust twigs, 90 sapling black locust twigs, and 21 pin oak twigs.

Create the appropriate graph for the differences between the numbers of twigs in nests 1 – 5, then create the appropriate graph to graphically display the composition of twigs in nest 2. You will end up with 2 complete data tables and two graphs.

**Scenario two:**

Mr. F was studying average coyote pack size from 2002-2005. He studied 3 packs during this time and came up with the following data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Wheeler Pack # | Monroe Pack # | Newtown Pack # | Easton Pack # |
| January 2002 | 5 | 7 | 3 | 6 |
| July 2002 | 5 | 7 | 5 | 5 |
| January 2003 | 6 | 9 | 5 | 5 |
| July 2003 | 8 | 9 | 6 | 4 |
| January 2004 | 8 | 9 | 6 | 4 |
| July 2004 | 7 | 12 | 9 | 7 |
| January 2005 | 8 | 7 | 8 | 7 |
| July 2005 | 8 | 9 | 13 | 8 |

Create the appropriate graph showing the average pack size of all packs at each observation date. Next, create an appropriate graph to graphically display the 4 pack sizes at the end of July 2005.

**Remember the acronym…. T. A. I. L. S. and you’ll ace this!!**