Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math Lab Day \_\_\_\_\_\_\_\_\_\_

**Random Sampling (based on “fish in a pond”)**

This activity focuses on making inferences based on a set of data, finding averages, and using a ratio table to demonstrate statistical procedures used by scientists when estimating populations in the real world.

|  |  |  |
| --- | --- | --- |
| Sample: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Tagged \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Total \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

Average:

What is your estimate for the total number of items in your collection? \_\_\_\_\_\_\_\_\_\_\_\_

Why would you collect a random sample?