

Go Fish! Data Sheet

Group Names: _____ Period: _____

Gathering Data

Casting	Total Number of Tagged Fish	Total Number of Fish in Sample	Number of Tagged Fish in Sample	Estimate
1				
2				
3				
4				
5				

Analysis of Estimates

1. What is the average estimate of the total number of fish in the lake?
2. What is the average number of tagged fish in each sample?
3. What is the average number of total fish in each sample?
4. Count all the fish in your lake. What is the exact number of fish in the lake?
5. How close was your average estimate (#1) to the actual number of fish in the lake (#4)?
6. Is there a difference between your estimate (#1) and the actual number of fish in the lake (#4)? Why or Why not?

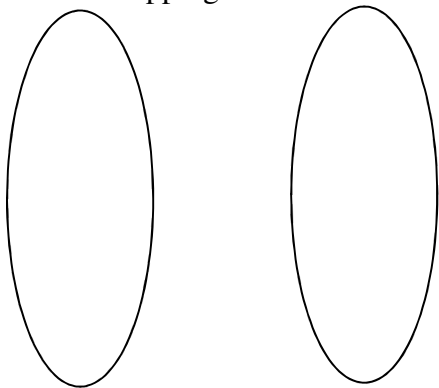
Working With Percentages & Probability

1. What percent of the fish in the lake was tagged?
(HINT: $100 \times \text{Total Tagged Fish} \div \text{Total Fish}$)
2. What percent of the fish in your samples was tagged?
(HINT: $100 \times \text{Average Tagged Fish in Sample} \div \text{Average Total Fish in Sample}$)
3. Suppose you went fishing at this lake and caught one fish. What is the probability, or chance, that the fish you caught would be tagged?
(HINT: $\text{Average Tagged Fish in Sample} \div \text{Average Total Fish in Sample}$)
4. How does the percent from #2 compare with the probability from #3?

Using Relations

1. Use the information in your chart to make a table of ordered pairs (x, y) such that x represents the number of the casting and y represents your estimate for the number of fish in the lake.

2. Draw a mapping for this relation.



3. Graph the ordered pairs on a coordinate grid.

