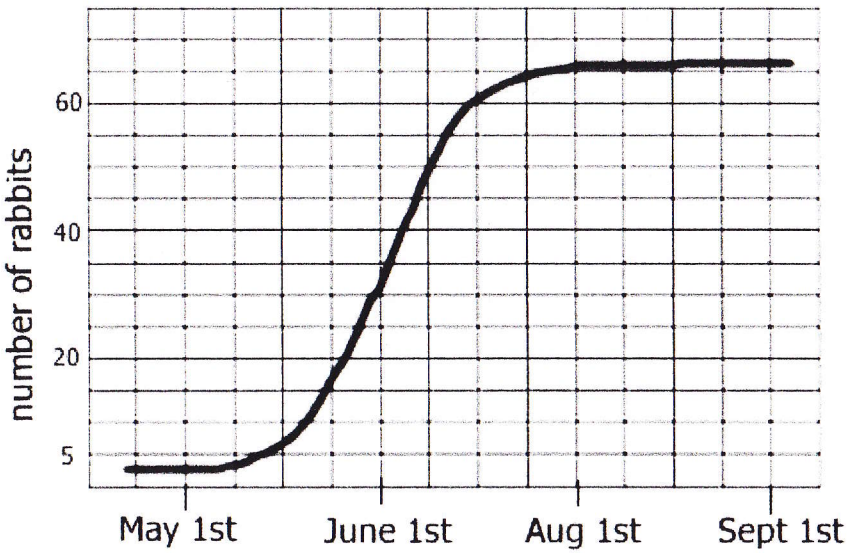
Name_____

Hour_____

Interpreting Ecological Data

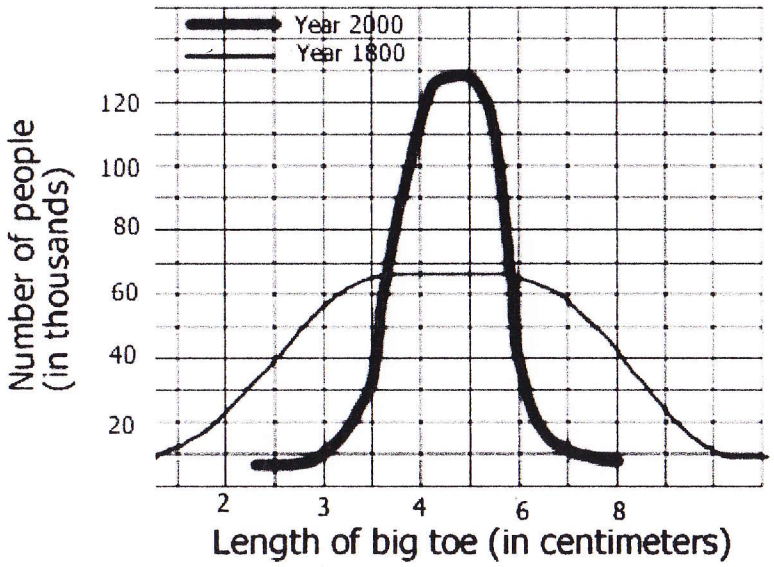
Graph 1: Rabbits Over Time

a. The graph shows a _____ growth curve.
b. The carrying capacity for rabbits is _____
c. During which month were the rabbits in exponential growth?



Graph 2: Average Toe Length

a. In 1800, about how many people surveyed had a 3 cm toe? _____
How many in 2000? _____
b. The data shows the _____ selection has occurred?
c. In 2000, what is the average toe length? _____ What is the average toe length in 1800 _____



Graph 3: Mexico and US

a. In Mexico, what percentage of the population is between 0-4 years of age? _____ In the US? _____

b. Which population is growing the fastest? _____

c. Which age group has the smallest number in both countries? _____

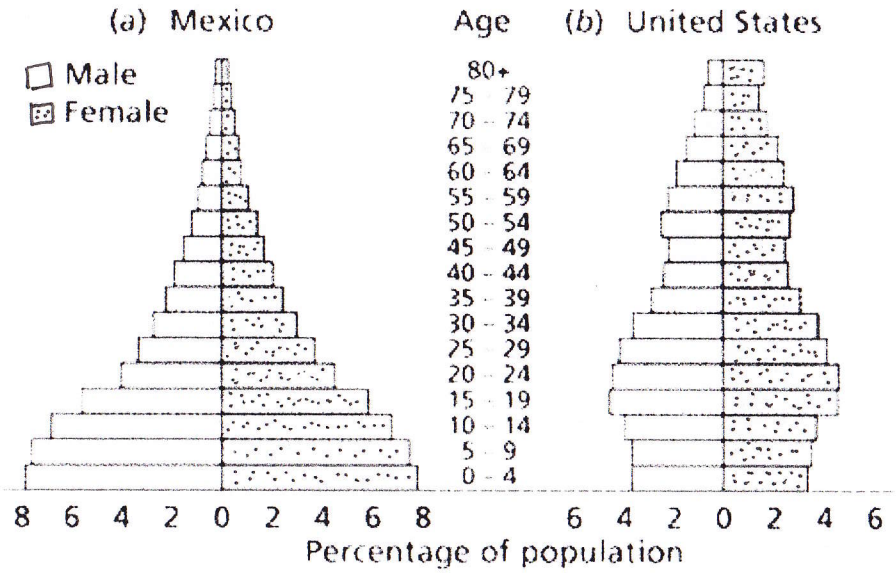


Chart 4: Trapping Geese

In order to estimate the population of geese in Northern Wisconsin, ecologists marked 10 geese and then released them back into the population. Over a 6 year period, geese were trapped and their numbers recorded.

Year	Geese Trapped	Number with Mark
1980	10	1
1981	15	1
1982	12	1
1983	8	0
1984	5	2
1985	10	1

a. Use the formula to calculate the estimated number of geese in the area studied? _____

b. This technique is called _____ & _____

c. Supposing more of the geese found in the trap had the mark, would the estimated number of geese in the area be greater or lesser? _____

$$\frac{\text{(Total number captured) x (number marked)}}{\text{(total number recaptured with mark)}}$$