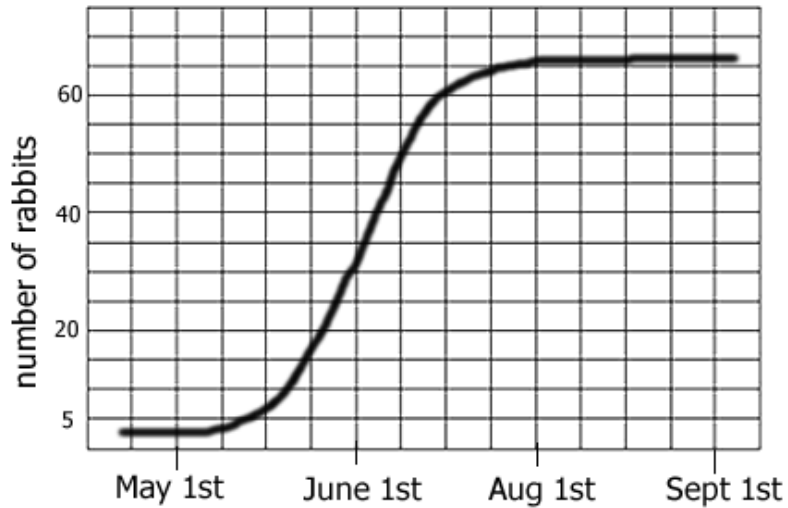


Name _____

INTERPRETING ECOLOGICAL DATA

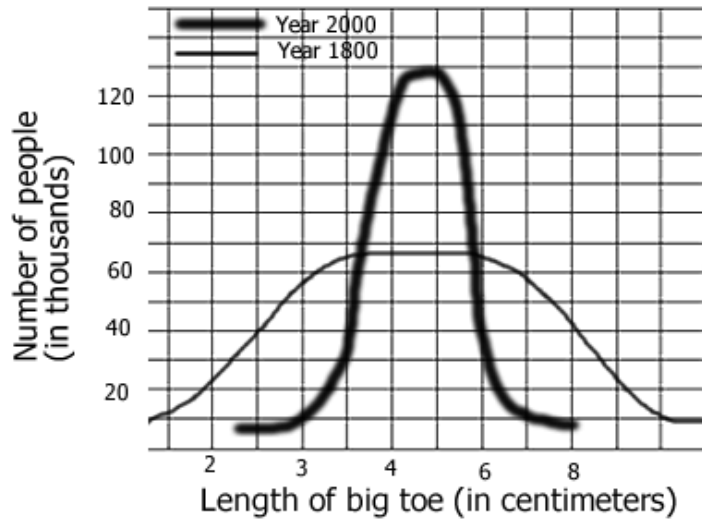
Graph 1: Rabbits Over Time

- 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? _____

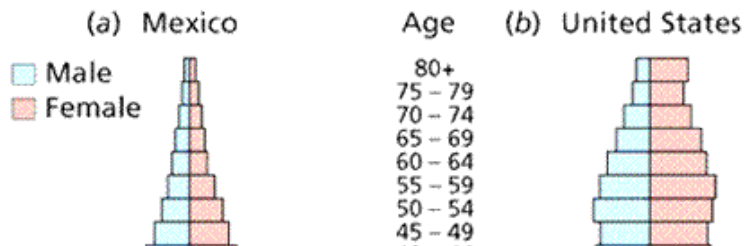


Chart 4: Trapping Geese

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? _____

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

Chart 5: Mushroom Plots

Another ecologist uses a different method to estimate the number of mushrooms in a forest. She plots a 10x10 area and randomly chooses 5 spots, where she counts the number of mushrooms in the plots and records them on the grid.

			5						2
		3							
			2					3	

a. Calculate the number of mushrooms in the forest based on the grid data: _____

b. This technique is called _____

Chart 6: Snakes & Mice

The data shows populations of snake and mice found in an experimental field.

a. During which year was the mouse population at zero population growth? _____

b. What is the carrying capacity for snakes ? _____

c. What is the carrying capacity for mice? _____

d. What is the rate of growth (r) for mice during 1970? _____ During 1980? _____

Year	Snakes	Mice born	Mice died
1960	2	1000	200
1970	10	800	300
1980	30	400	500
1990	15	600	550
2000	14	620	600
2001	15	640	580

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