Name:	Date:
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Analyzing Data

1. An experiment studies the effects of an experimental drug on the number of offspring a mother mouse has. 10 female mice are given the drug and then impregnated. The number of mice in their litters is compared to the litters of mice that did not take the drug.

Number of Babies in Litter										
Group A (drug)	5	6	4	8	5	2	7	12	12	8
Group B (control)	4	4	6	6	5	6	4	7	5	3



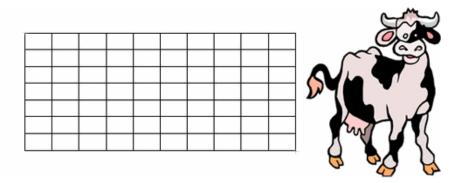
Based on the data, what would you conclude about the drug, did it work?

2. Cow Growth Rates

A type of feed claims to boost the growth rate of cows. The feed is tested on two twin newborn cows. Bessie receives the experimental feed, and Bertha receives regular corn feed. Their weights are recorded below.

Month	April	May	June	July	Aug
Bessie	150 lbs	210 lbs	260 lbs	320 lbs	400 lbs
Bertha	150 lbs	250 lbs	290 lbs	340 lbs	400 lbs

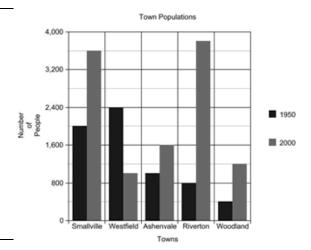
Graph the data; use a dotted line for Bessie and a straight line for Bertha. Make sure you label the X and Y axis.



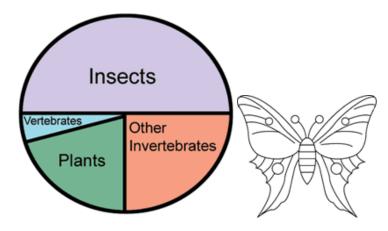
Both cows ended at the same weight, but did the experimental feed change the way they gained weight at all? Describe your conclusions about the experimental feed and explain why it is important that the experiment used twin cows?

3. Town Populations Graph

- a. According to the graph, which town grew the fastest?
- b. Which town declined in population?
- c. Which town had the smallest change in population?
- d. What is the population of Woodland in 2000?

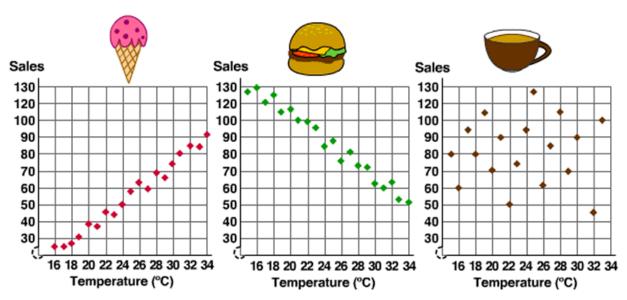


4. Insect Graph



- a. According to the graph, which group of organisms has the most number of species?
- b. What is the total percentage for all invertebrates? What about vertebrates?

5. Food Sales (Scatterplot)

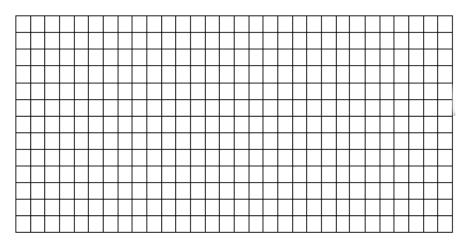


- a. A positive correlation occurs when one set of values increases, so does the other set of values. Which food show a positive correlation between sales and temperature?
- b. Which shows a no correlation?
- c. How could a park manager use this type of information?

6. Tiger Shark Population

The population of tiger sharks off the coast of Florida was recorded over several months. Graph the tiger shark populations below.

January - 12	May - 34	September – 72
February - 15	June – 44	October – 85
March - 25	July – 49	November – 98
April - 35	August - 55	December - 105





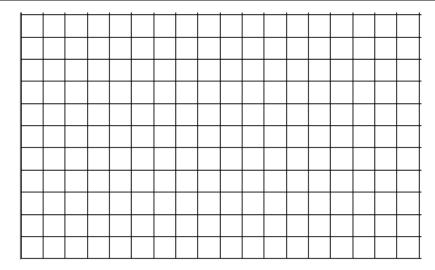
The number of nurse sharks was also recorded for this time period; though the person recorded the number was not as reliable as the person recording tiger shark numbers. The following data was taken on nurse sharks. Use a different color to graph the nurse shark population on the graph above.

March - 60 | April - 52 | July - 38 | August - 20 | November - 14 | December - 11

- a. At what month would you expect the number of nurse sharks to equal the number of tiger sharks?
- b. What does the graph tell you about the trends both shark populations?

7. Scatterplot: Time Spent Studying

	Tim	J.R.	Sue	Pat	Jay	Red	Ben	Sam	Cat	Lex	Vic	Drew	Fin
Time Spent Studying (min)	30	5	60	30	5	20	40	10	15	25	10	70	20
Grade on Test (%)	70	50	90	80	60	70	90	60	70	80	50	100	80



Summarize your graph in a single sentence.