

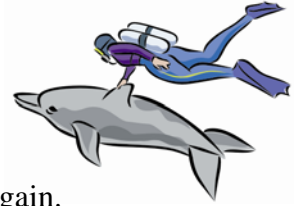
# Dive Data

NAME \_\_\_\_\_

Congratulations on safely completing your dives! Below is a chart displaying the data that has been collected over the past five years, including the data from you and your classmates (This Year). Analyze the data to determine how the Coral Reef Preservation Society of Central America can better protect the animals and plants that live on the reef.



You and your partner will each complete this activity sheet, but after each question, share your answers. If you disagree with your partner, discuss the question and try again.



## Data Collected by Students

ANIMAL SPECIES	FOUR YEARS AGO	THREE YEARS AGO	TWO YEARS AGO	LAST YEAR	THIS YEAR
Dolphins	16	14	14	12	11
Manatees	12	10	9	6	4
Sea Turtles	10	9	8	6	5
Spotted Eagle Rays	25	28	30	25	22
Nurse Sharks	18	18	15	13	12

Notes from your classmates:

- We found a soda can, three glass bottles, and a plastic bag in the water.
- There was oil on the surface of the water by the boat dock.
- We saw several large cruise ships in the harbor.
- A boat was spotted that had black smoke coming out of the engine.
- A bird on the shore had his leg caught in some old fishing line.

1. The number of manatees has decreased each year. What is the difference in the number of manatees seen Four Years Ago and the number of manatees seen This Year? Why do you think there are fewer manatees each year?
2. Based on the data, what can you say about the sea turtle population?
3. Observe the trend of the sea turtle data. What do you think next year's data might look like? Explain.

4. The number of spotted eagle rays increased between Four Years Ago and Two Years Ago, but then Last Year, the population of rays started to decline. Explain what you think might have happened.
  
5. According to the data, the number of dolphins has decreased from 16 to 11 over the past five years. If this trend continues, what do you predict the dolphin population will be five years from now? Why?
  
6. Look at the data for the nurse sharks. Has the population decreased each year? How much has the population decreased since Three Years Ago?
  
7. Which species had the greatest decrease over the past five years? How did you calculate your answer?
  
8. Which species had the least change? How do you know?
  
9. Calculate the total number of animals seen Four Years Ago and the total number of animals seen This Year.

Total animals seen Four Years Ago: \_\_\_\_\_

Total animals seen This Year: \_\_\_\_\_

What can you infer from this data?

10. How likely do you think it is that all species will decrease in the next year? Why?

certain

likely

unlikely

impossible