

## Sirenian Statistics

### OBJECTIVE

Students will calculate the amount of food a manatee eats every day, determine what percent of its body weight it eats, and figure metric conversions.

### MATERIALS

- copies of page 11
- pens or pencils

### ACTION

1. Hand out copies of page 11. Using the information equations provided for metric conversions, have the students fill in the blank spots on the activity sheet.
  2. Have the students answer the questions to interpret the data.
1. Tuesday—Dutchess  
Wednesday—Roscoe  
Thursday—Hugo
  2. Tiny
  3. 4% to 9%

### ANSWER KEY:

#### *Tuesday*

Hugo	1,400 lb.	98 lb.	7%
Dutchess	1,100 lb.	99 lb.	9%
Tiny	2,000 lb.	60 lb.	8%
Roscoe	1,256 lb.	75 lb.	6%
Star	1,175 lb.	59 lb.	5%

#### *Wednesday*

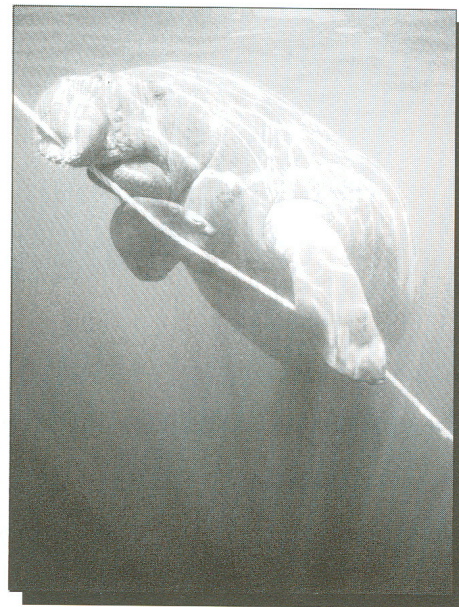
Hugo	636 kg	43 kg	7%
Dutchess	499 kg	30 kg	6%
Tiny	908 kg	40 kg	4%
Roscoe	570 kg	50 kg	9%
Star	533 kg	37 kg	7%

#### *Thursday*

Hugo	1,400 lb.	60 kg	9%
Dutchess	1,100 lb.	75 kg	8%
Tiny	2,000 lb.	36 kg	4%
Roscoe	1,256 lb.	46 kg	8%
Star	1,175 lb.	32 kg	6%

### DEEPER DEPTHS

Determine the average amount of food each animal eats each week and each year.



Manatees have been observed making contact with ropes, buoys, logs, rocks, and scuba divers.

## Sirenian Statistics Data Sheet

While rehabilitating these manatees, two different people filled out the data sheet. One person entered data in pounds, the other person recorded data in kilograms. Neither person completed the data sheet. Using the information given, fill in the blank spaces at the bottom of this page using the information provided, then answer the questions to interpret the data.

1. Which animal ate the highest percentage of food on each day?
2. Which animal's appetite showed the greatest difference between Tuesday and Wednesday?
3. These manatees show the typical range in the amount their species eats each day. What is the percentage range?

### Sirenian Statistics

1 lb. = 0.454 kg    1 kg = 2.205 lb.

#### Tuesday:

Name	weight	amount eaten	% of body weight
Hugo	1,400 lb.	_____ kg	7%
Duchess	1,100 lb.	_____ kg	9%
Tiny	2,000 lb.	_____ kg	8%
Roscoe	1,256 lb.	_____ kg	6%
Star	1,175 lb.	_____ kg	5%

#### Wednesday:

Hugo	_____	43 kg	_____
Duchess	_____	30 kg	_____
Tiny	_____	40 kg	_____
Roscoe	_____	50 kg	_____
Star	_____	37 kg	_____

#### Thursday:

Hugo	1,400 lb.	60 kg	_____
Duchess	1,100 lb.	75 kg	_____
Tiny	2,000 lb.	36 kg	_____
Roscoe	1,256 lb.	46 kg	_____
Star	1,175 lb.	32 kg	_____