



FEEDING ANIMALS AT THE MINNESOTA ZOO

Grades 5-6

NAME _____

Directions: Answer the following questions using the information provided. Show your work. If additional space is needed, please attach a separate piece of paper and correctly identify the problem it correlates to. If you are creating a table or graph, be sure to include titles and labels.

The African fruit bat and Indian straw bat natural habitat is in East Africa, In the wild, it feeds on juice from fruits: mangos, bananas, papayas, figs, sapotes and guavas. If you were a zookeeper this is one possible menu you might use in the preparation and feeding of the bat colony (about 130 bats per day):

FRUIT BAT MENU	Grams	Kilograms (kg)
Apples	1950g	_____
Pear	1150g	_____
Oranges	900g	_____
Peeled banana	2300g	_____
Grapes	900g	_____
Yam (cooked)	775g	_____
Cantaloupe (not peeled)	2000g	_____
Carrot (cooked)	775g	_____
Romaine	850g	_____
Kale	250g	_____



- Convert each ingredient into kilograms. Label each decimal answer with the food name.
(example: 1950g of apples = 1.95kg of apples)
- Note the amount of romaine and kale in the menu. If these two foods come in 1 kilogram (kg) packages, what percent of the whole package would the zookeeper use in one day? Show your work and label answers for each food.



NAME _____

- 3) The colony of fruit bats has dramatically decreased in size! It has gone from 130 bats to 97.
- a. Using estimation, what would be a reasonable answer for the amount of cooked yam needed to feed ninety-seven bats.
- _____
- b. Use your calculator to design a menu for this colony of ninety seven bats. **(a separate sheet may be needed)**
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- 4) a. What operation (+ , - , x , divide) would you use to determine how much food it would take to feed 130 bats instead of 97?
- _____
- b. Figure out more than one method to solve this problem. Show your work for each method. Use the oranges as an example.
- _____
- 5) You must present your menu for the larger colony of bats to a class of 7th graders visiting the Zoo. Design a chart with pictures for each food or ingredient. It should make an attractive, eye-catching display to illustrate how zookeepers design and prepare menus for their animals. **(a separate sheet may be needed)**