

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.

1) A mouse is about 4 inches long. A squirrel is about 8 inches long.

a) How many mice would it take to equal the length of one squirrel?

$$\begin{array}{l} \mathbf{4 \text{ INCHES} \times \underline{\quad} \text{ INCHES} = \mathbf{8 \text{ INCHES}} \\ \underline{\quad} = \mathbf{2} \qquad \qquad \mathbf{2 \text{ MICE} = 1 \text{ SQUIRREL}} \end{array}$$



b) Four squirrels? _____

$$\begin{array}{l} \mathbf{2 \text{ MICE} \times \mathbf{4 \text{ SQUIRRELS}} = \underline{\quad} \text{ MICE} \\ \underline{\quad} = \mathbf{8} \qquad \qquad \mathbf{8 \text{ MICE} = 4 \text{ SQUIRRELS}} \end{array}$$

c) How many squirrels would equal the length of 16 mice? _____

$$\mathbf{2 \text{ MICE} \times \underline{\quad} \text{ SQUIRRELS} = \mathbf{16 \text{ MICE}} \qquad \underline{\quad} = \mathbf{8} \qquad \mathbf{16 \text{ MICE} = 8 \text{ SQUIRRELS}}$$

d) A mouse is approximately _____ the length of a squirrel. (hint: use a fraction)

$$\mathbf{1/2}$$

2) In Discovery Bay's Shark Reef, there are two different types of sharks at the zoo sharing a 60 feet by 30 feet tank with several hundred other fish. The water is about 13 feet deep. An average sand tiger shark is 8 feet long.

a) How many yards long is the sand tiger shark? _____

$$\mathbf{3 \text{ FEET} = 1 \text{ YARD}; \qquad \mathbf{8/3 = 2.7 \text{ YARDS}}$$

b) How many sand tiger sharks could fit nose to tail in the width of the Shark Reef tank? _____

$$\mathbf{30 \text{ FEET} / 8 \text{ FEET} = 3 \text{ SHARKS CAN FIT}}$$



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3) Sharks can continuously regrow teeth throughout their lifetime. As one row of teeth wear out, the next row moves forward to replace them.

a) If there are 38 teeth in a row and the front row of teeth are replaced every week in a growing shark, how many teeth will a shark lose in the month of May? *Round your answer to the nearest tens place.* _____

MAY = 31 DAYS / 7 DAYS A WEEK

38 TEETH X 4.4 WEEKS = 167.2 TEETH LOST IN THE MONTH OF MAY

b) How many less teeth will a shark lose in the month of February, non-leap year? *Round your answer to the nearest tens place.* _____

FEBRUARY = 28 DAYS / 7 DAYS A WEEK

38 TEETH X 4 WEEKS = 152 TEETH LOST IN THE MONTH OF FEBRUARY

167.2 - 152 = 15.2 LESS TEETH IN FEBRUARY THAN MAY

4) The antlers of a full grown bull (male) moose can be 60 to 70 inches wide.

a) How many feet would a set of 60-inch antlers be? _____

5 FEET

b) How tall are you? _____

ANSWERS WILL VARY

c) Are you taller or shorter than the width of the antlers? _____

ANSWERS WILL VARY BASED ON PREVIOUS ANSWERS







d) How much taller or shorter? _____

ANSWERS WILL VARY BASED ON PREVIOUS ANSWERS



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- 5) Here are the lengths of different fish that can be seen at the coral reef exhibit. A zookeeper must know the sizes of the fish so that the tank can support all the fish that are acquired. Fill in the graph with this information and then answer the questions that follow.

Milkfish		18"		16"	Batfish
Foxface Rabbitfish		8"		24"	Sweet Lips
Clown Triggerfish		10"		3"	Sharpnose Puffer

LENGTH OF REEF FISH

Type of Fish	Length in Inches (1 square = 1 inch)																			
Milkfish																				
Foxface Rabbitfish																				
Clown Triggerfish																				
Batfish																				
Sweet Lips																				
Sharpnose Puffer																				

a) The Milkfish is how many times larger than the Sharpnose Puffer? _____

6 TIMES

b) How many Foxface Rabbitfish would you need to equal the length of two Sweet Lips? _____

6 FOXFACE RABBITFISH

c) What is the difference in length between the largest and smallest fish? _____

24 - 3 = 21 INCHES

d) What is the average length of this group of fish? (Round to the nearest tenths.) _____

18 + 8 + 10 + 16 + 24 + 3 = 79

79 / 6 = 13.16 = 13.2