



MOSQUITO BITE

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Objectives: ... identify mathematics in everyday situations
 ...use multiplication and division to solve problems involving whole numbers
 ...estimate to solve problems where exact answers are not required
 ...measure to solve problems involving area
 ...use tables of related number pairs to make line graphs

Mosquito Math

Use your understandings of math to help you answer the following problems. Show your problem solving steps in your math journal.

____ 1. A female mosquito can lay from 100 to 400 eggs in one egg raft. Some of them lay eggs four times during their lifetimes. Which of these is the best estimate of how many eggs she could lay during her life span?

- A. 400 C. 1000
 B. 1600 D. 2100

____ 2. Mosquitoes' wings beat about 500,000 times each second. About how many times would a mosquito's wings beat in 15 seconds?

- A. 75,000 C. 2,000,000
 B. 1,000,000 D. 7,500,000

____ 3. Twenty mosquitoes laid 3,600 eggs in a stagnant pond. What is the average number of eggs laid by each mosquito?

- A. 180 C. 460
 B. 250 D. 1800

____ 4. The book states there are 2700 species of mosquitoes, most of which feed on flower nectar and plant juices. If only 1/5 of them needed blood to nourish their eggs, how many mosquito species would need blood to survive?

- A. 420 C. 690
 B. 540 D. 780

____ 5. In order for the female mosquito to provide blood for her eggs, she is equipped with minute cutters to help her poke a hole in human skin. Sometimes, they have to make 14 cuts to create a blood flow. If you had 25 mosquito bites after your camping trip, what is the largest number of cuts the mosquitoes would have made in your skin?

- A. 180 C. 350
 B. 200 D. 425

____ 6. A scientist charted the # of eggs laid by 8 mosquitoes. Study the chart and answer the question below.

Mosquitoes	Eggs
#1	210
#2	230
#3	240
#4	260
#5	280
#6	290
#7	295
#8	300

What is the mean number of eggs laid by the eight mosquitoes?

- A. 180 C. 270
 B. 250 D. 295

____ 7. A county treated the surface of a circular pond that had a radius of 77 feet. How large was the pond in square feet?

- A. 3,398 sq. ft.
 B. 7,863 sq. ft.
 C. 17,634 sq. ft.
 D. 18,634 sq. ft.

