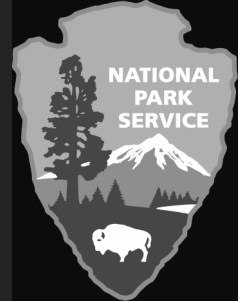# How to Read a Skull Like an Open Book

Rangers in the Classroom—Pre-visit Lesson Plan

Grade Level: 4th

Setting: Classroom

Duration: 15-25 min.

Standards Addressed:

- Reading Comprehension: 2.7
- Written and Oral English Language Conventions: 1.1,1.2, 1.3
- Number Sense: 3.0

Introduction:

Welcome to Rangers in the Classroom! We are looking forward to visiting your class for our How to Read a Skull Like an Open Book program. To help prepare your class for the ranger visit, we have created a pre-visit activity to introduce your students to some of the concepts we will cover in our program. If you are interested in additional preparation, the program outline includes a vocabulary list and can easily be found on the website at: http://www.nps.gov/seki/forteachers/index.htm. By exploring a few concepts and vocabulary words with your students prior to our visit, you will help us hit the ground running.
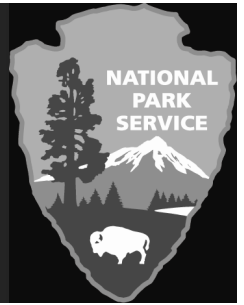Have fun and we'll see you soon!

Materials:

- Print out 1 copy for overhead projection or multiple copies for each of the students.
- Pencils
- Optional: Overhead projector or document camera

Instructions:

1. Pass out worksheets to students or display on an overhead projector.
2. Go over instructions on the top of the activity with the class. Explain to the students that the animals in the math problems are all animals that call Sequoia National Park home.
3. Correct and review as a class when worksheets are complete.

Amazing Animal Arithmetic

Directions: Read each story problem carefully. Then, answer the question, showing your work below.

1. A mother bobcat, called a queen, lives in the foothills of Sequoia National Park. She is a predator and enjoys eating mice. The queen and her kitten are hunting mice. She eats 8 mice and her kitten eats 5. How many mice did they eat all together?

2. Black bears eat many different types of insects including wasps, bees, and ants. If a bear eats 179 bees in the morning and 256 ants in the afternoon, how many insects did the bear eat all day?

3. A coyote who lives in Grant Grove can run 30 miles per hour. If the coyote runs for ½ an hour at 30 miles per hour without stopping, how far will he have travelled?

Amazing Animal Arithmetic

4)   An average house cat weighs 11 pounds. An average adult bobcat weighs twice as much as a house cat. How much does an average adult bobcat weigh?

5)   A deer living in Kings Canyon National Park decides to walk from Grant Grove to Cedar Grove. The walk is 37 miles one way. How many miles does the deer have to walk if it walks to Cedar Grove and back?

6)   Mountain lions living in Sequoia National Park eat 2 mule deer a month. How many deer will a mountain lion eat in one year?