

## Scientific Notation Quiz

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. You are a technician at a clinic. You measure an estimated 2.65 billion contaminates in a one-kilogram sample of tainted dog food. The paperwork says that there is 150 thousand kilograms of food in the warehouse. Estimate the total amount of contaminates in the food in scientific notation.

2. The cat has 237000 microliters of blood. We read that a cat has 9.0 million RBC per microliter. Calculate the estimated number of RBC in the cat in scientific notation.

3. The size of the sample under the microscope is  $4.5 \times 10^{-5}$  m long by  $8.2 \times 10^{-5}$  m wide. What is the area of the sample in square meters in scientific notation?