Name_____   Date _____

Mr. Tallman

Homework #49 – Applications of Scientific Notation

1) Students at Nassau Community College pay 1.585×10^4 dollars per year in tuition. Students at Hofstra University pay 6.4985×10^5 dollars per year in tuition. How many times greater is the tuition at Hofstra University? Write your answer in standard form.

2) In 1985, the world population was 4.9×10^9. In 2005, the world population grew to 6.4×10^{12}. How many more people were in the world in 2005 than in 1985? Write your answer in scientific notation.

3) The weights, in ounces, of different animals are shown in the table below.

Part A:
What is the difference in weight between the elephant and the zebra?
   Write answer in standard form.

Animal	Weight (ounces)
Elephant	9.28×10^5
Cat	1.28×10^2
Mouse	7.3×10^{-1}
Zebra	3.6×10^5

Part B:
How many times heavier than a cat is an elephant.
   Write answer in scientific notation.