Wisdom Lane Middle School Homework #100 Date:_____
Name:_____ Period:_____
Teacher: Mr. Tomeo

Scientific Notation

1. I. Put the following numbers written in **standard form** into **scientific notation**.

a. 0.000005 b. 80 c. 4500000 d. 0.009

e. 200000000 f. 78900 g. 0.01 h. 1000000000

i. 0.00443 j. 0.256 k. 5553 l. 3

II. Change the following numbers into their **correct** scientific notation form.

m. 71×10^{3} n. 33×10^{-3} o. 0.63×10^{1} p. 0.15×10^{-2}

2. Put the following numbers into their **standard form.**

a. 0.8×10^{-1} b. 2×10^{-1} c. 4×10^{5} d. 101×10^{2}

e. 1.66×10^{4} f. 4.5×10^{-2} g. 7.65×10^{-1} h. 2.3×10^{7}

i. 5.5×10^{-4} j. 0.63×10^{1} k. 1.23×10^{3} l. 3.0×10^{8}

3. Put the following **facts** into standard form and gain an understanding its practical value.

Fact	Scientific Form	Standard Form
The population of the Earth.	7.125×10^{9}	
The speed of light in miles per second.	1.86282×10^{5}	
The thickness of a strand of silk in millimeters.	1×10^{-3}	
The weight of a blade of grass in kilograms.	6.543×10^{-8}	
The weight of an M&M in kilograms.	6.777×10^{-6}	
The distance from Earth to Mars in kilometers.	5.6×10^{7}	
The distance from Earth to the Sun in miles.	9.3×10^{7}	
About the number of people on Facebook.	5×10^{8}	
The weight of the Earth in tons.	6.58×10^{24}	