Name:

Homework – Monday (February 11, 2019)

Solve the following problems without a calculator. You <u>MUST</u> show your work. NO WORK = NO CREDIT.		
1. Write the number in scientific notation.	2. Solve for h.	
a) 0.00020b) 180,900,000	$h^2 = \frac{9}{25}$	
c) 0.0036		
3. What is the value of x in the equation below? $x^{2} + 25 = 106$	4. Maryland has about $1.6 \ge 10^4$ students enrolled in public schools. The United States has about $3.1 \ge 10^9$ students enrolled in public schools. About how many times larger is the number of students enrolled in public schools in the United States than in Maryland?	

Homework- Tuesday (February 12, 2019)

Solve the following problems without a calculator . Y	You <u>MUST</u> show your work. NO WORK = NO CREDIT.
4. Simplify in exponential form.	2. A glass marble factory produces 4.5×10^4 marbles in

4. Simplify in exponential form. a) $(3^{-2})(9^{-1})(3^3)$	2. A glass marble factory produces 4.5 x 10° marbles in 1,800 minutes. What is the factory's unit rate of production in marbles per minute? Write the answer in scientific notation.
b) $(3^2 \times 5^4)^2 (5^5)$	
3. Solve for <i>x</i> in the equation.	4. The volume of a cube is 125 cubic centimeters. What is the area of one side of the cube?
$3x^2 + 27 = 54$	

	Solve the following problems without a calculator. You <u>MUST</u> show your work. NO WORK = NO CREDIT.		
1.	Simplify in scientific notation.	2. What is the value of <i>x</i> in the equation below?	
	a) (1.5 x 10 ⁵) (2.3 x 10 ⁶)	$x^2 + 1 = 50$	
	b) $(6.5 \times 10^{15}) (1.48 \times 10^8)$		
2.	What is the value of the expression?	4. A light year is defined as the distance light travels in one year. One light year is 9.46×10^{12} kilometers. A galaxy is about 150,000 light years wide. About how	
	$5^2 \cdot 3^6 \cdot 5^2$	many kilometers wide is the galaxy?	
	$3^4 \cdot 5^2 \cdot 3^2$		

Homework - Thursday (February 14, 2019)

Solve the following problems without a calculator. You <u>MUST</u> show your work. NO WORK = NO CREDIT.		
 The population of North Dakota is about 8.3 x 10⁶. The population of Canada is about 2.4 x 10¹¹. Approximately how many times larger is the population of Canada than North Dakota? 	2. The volume of a cube is 512 cubic inches. What is the length of one side of this cube?	
3. Which choice is both the square of an integer and the cube of an integer?	4. The area of a square is 36cm ² . What is the perimeter, in cm, of the square?	
a) 49		
b) 100		
c) 16		
d) 64		