***Lesson 7: Multiply and Divide with Positive Scientific Notation Group Activity***

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|  | **1. ASTRONOMY** The Sun burns abouttons of hydrogen per second. Howmuch hydrogen does the Sun burn in one year?(*Hint:* one year = 31,600,000 seconds) |  | **2. TRUCKING COMPANY** Last year a large trucking company delivered about 5 million loads of goods an average value of $12,500 per load. What is the total value of goods delivered? Express your answer in Scientific Notation. |
|  | **3. NATIONAL DEBT** In year of 2004 the United States National Debt increased by $. On average, how much did the US National Debt increase each day? (Hint: there are 365 day in a year |  | **4.**  **OCEAN** Humpback whales are known to weigh as much as 8 × $10^{4}$ pounds. The sea lions they eat weigh only  pounds. How many times greater than sea lions are humpback whales? |

1. Which questions did you multiply? What words in the questions told you to multiply?
2. What did you do when the decimal in the answer was not in scientific notation for multiplication?
3. Is there an exponent short cut when multiplying with scientific notation? Explain.
4. Which questions did you have to divide? What words in the questions told you to divide?
5. What did you do when the decimal in the answer was not in scientific notation for division?
6. Is there an exponent short cut when dividing with scientific notation? Explain.