***Multiply and Divide with Negative Scientific Notation Group Activity***

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|  | **1. OCEAN** Humpback whales are known to weigh as much as 8 × pounds. The tiny krill they eat weigh only 2.1875 × pounds. How many times greater than krill are humpback whales? |  | **2. DUST** A dust particle has an area of meter. If there are dust particles on a counter top, what is the area of the dust particles on the counter top? Express your answer in scientific notation. |
|  | **3. COPPER** The body of a 150 lb. person contains lbs. of copper. Approximately how much copper is in each pound? Express your answer in Scientific Notation. |  | **4. VINEGAR** There are approximately 0.05 liters of acetic acid in 1 gallon of vinegar. If 1 mL = 0.000264 gallon, how many mL of acetic acid are there in 1 gallon of vinegar? Express your answer in scientific notation. |

***ANALYZE***

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. Which questions did you have to divide? What words in the questions told you to divide?
4. How did you know what number to put on the numerator of the fraction? (Unit Rate/Larger?)
5. What did you do when the decimal was not in scientific notation?