Jabberwocky Group Challenge Exercise

|  |  |
| --- | --- |
| **PURPOSE** | This exercise is to reinforce the concept that problems are set up based on UNITS. |
| **INSTRUCTIONS** | * You do not need to know what the units are if you can figure out how to set up a dimensional analysis problem!
* Work as a group to solve the following problem.
* **You must show all work to receive credit!**
 |
| **CONVERSION FACTORS** | There are 2 mome raths per Jabberwock. |
| There are 20 tumtum trees in the tulgey wood | There are 2 Jubjub birds in 200 tumtum trees. |
| In each tulgey wood is one frumious Bandersnatch. | There are 200 mome raths in each borogove. |
| There are 5 slithy toves in 2 borogoves. | There are 5 Jubjub birds per slithy tove. |
| **QUESTION** | If there are 5 frumious Bandersnatches, how many Jabberwocks are there?*HINT: First find your known, your unknown, and your conversion factors!* |
| **KNOWN VALUE** |  | **UNKNOWN UNIT** |  |
| **WRITE ALL THE CONVERSION FACTORS LISTED ABOVE AS FRACTIONS** |
|  |
| **SETUP, UNIT CANCELING, & ANSWER** |
|  |
| **After you finish the Jabberwocky problem, try this one.** Show your work **just like you did on the Jabberwocky problem!** List known, unknown, conversion factors, setup, unit canceling, and your final answer. |
| A spaceship from another planet travels at a speed of 4.27 googs per mulm. There are 256 googs in a plotz and 12.3 plotz in a wraslm. If 3.4 tpocks equal one mulm, what is the ship’s speed in wraslm per tpock?  |