

Name: \_\_\_\_\_

Period: \_\_\_\_ Subject: \_\_\_\_\_

Date: \_\_\_\_\_

## Avogadro's Number: the Mole!

Be sure to use the correct number of significant figures, and express your answers in scientific notation when appropriate.

1. How many hydrogen atoms (**H**) are there in 3.0 mol of hydrogen atoms?
2. How many hydrogen molecules (**H<sub>2</sub>**) are there in 2.00 mol of hydrogen molecules?
3. How many **H** atoms are there in 2.5 mol of hydrogen *molecules* (be careful!)?
4. How many moles of duck-billed platypi are represented by  $2.107 \times 10^{24}$  platypi?
5. If you have  $1.505 \times 10^{23}$  purple syrples, how many moles of purple syrples do you have?