

## MOLES TO PARTICLES (ATOMS OR MOLECULES) WORKSHEET

1. How many molecules are in 2.00 moles of  $\text{H}_2\text{O}$ ?  $1.20 \times 10^{24}$  molecules  $\text{H}_2\text{O}$
2. How many moles are in  $8.30 \times 10^{23}$  molecules of  $\text{H}_2\text{O}$ ? 1.38 moles  $\text{H}_2\text{O}$
3. How many molecules are in 0.500 moles of  $\text{H}_2$ ?  $3.01 \times 10^{23}$  molecules  $\text{H}_2$
4. How many atoms are in 1.00 moles of He?  $6.02 \times 10^{23}$  atoms He
5. How many atoms are in 1.50 moles of Hg? 1.  $9.03 \times 10^{23}$  atoms Hg
6. How many molecules are in 2.50 moles of  $\text{O}_2$ ?

7. How many atoms are in 0.250 moles of Rb?
  
  
  
  
  
  
  
  
  
  
8. How many moles are in  $2.91 \times 10^{22}$  atoms of He?
  
  
  
  
  
  
  
  
  
  
9. How many moles are in  $1.23 \times 10^{50}$  molecules of  $\text{H}_2$ ?
  
  
  
  
  
  
  
  
  
  
10. How many moles are in  $5.25 \times 10^{25}$  atoms of Au?
  
  
  
  
  
  
  
  
  
  
11. How many moles are in  $7.14 \times 10^{35}$  molecules of  $\text{O}_2$ ?
  
  
  
  
  
  
  
  
  
  
12. How many moles are in  $8.11 \times 10^{20}$  molecules of  $\text{CH}_4$ ?