

**MOLE CONVERSION PRACTICE (moles #2):**  
~ WORKING WITH MOLES and R.P. ~

- *Show all work. Circle all answers.*
- *Show units and watch sig.figs.*
- *Make sure all chemical formulas are correct.*
- *Specify the type of representative particle (r.p.) used.*

- 1) Convert 0.4190 moles of oxygen difluoride to particles of oxygen difluoride.
- 2) How many moles of neon gas are found in  $2.222 \times 10^{28}$  r.p.?
- 3) Convert  $5.0 \times 10^{27}$  r.p. of copper to moles of copper.
- 4) How many r.p. of barium nitride are contained in 1.678 mol of barium nitride?
- 5) Find the number of moles contained in  $9.0 \times 10^{24}$  particles of calcium carbonate.
- 6) Calculate the number of r.p. that are found in 2.75 mol iron(III) phosphite.
- 7) How many moles are contained in  $5.417 \times 10^{22}$  r.p. of silicon dioxide?
- 8) How many r.p. are in 0.6655 moles of chlorine?
- 9) Convert  $8.875 \times 10^{21}$  r.p. of titanium to moles of titanium.
- 10) Calculate the number of moles found in  $1.2 \times 10^{20}$  r.p. of carbon monoxide.