

MOLE CONVERSION PRACTICE (moles #4)
~ WORKING WITH LITERS (of a gas at STP) AND MOLES ~

- *Show all work.*
- *Circle all answers.*
- *Show units and watch sig.figs.*
- *Make sure all chemical formulas are correct.*

- 1) How many liters of space does 0.7509 mol of argon gas occupy at STP?
- 2) How many moles are contained in 25.00 L of carbon monoxide gas at STP?
- 3) Calculate the number of liters in 1.6 mol of helium gas. Assume STP conditions.
- 4) How many mol are equal to 459.67 L of nitrogen dioxide gas at STP?
- 5) How many moles are found in 500.0 L of oxygen gas at STP?
- 6) Calculate the number of liters in 3.18 mol of sulfur dioxide gas. Assume STP conditions.
- 7) How many liters are found in 0.111 mol of methane gas (CH_4) at STP?
- 8) Calculate the number of moles in 325.00 L of chlorine gas under STP conditions.
- 9) Find the number of liters in 15 moles of radon gas under STP conditions.
- 10) How many moles are equivalent to 96.5 L of acetylene gas (C_2H_2) at STP?