## The Mole Lesson 1 Check for Understanding Mole Conversions

PART ONE: Solve the following problems in your journal. Be sure to show all work. Use sig figs and units in your final answer 1 mole =  $6.022 \times 10^{23}$  atoms, molecules, or formula units

	f atoms in 4.00 moles of alum	inum, Al.
2. Convert 2.65 x 10 <sup>23</sup> form	ula units of sodium fluoride,	NaF to moles.
3. Convert 4.26 x 10 <sup>25</sup> mole	ecules of ammonia, NH <sub>3</sub> to mo	oles.
ART TWO: Molar Mass: Use	e these values to answer que	stions 7-9
Calculate the molar mass of	-	v all work. Use units in your final answer and
round to proper sig figs.  4. NaF	5. Al(OH) <sub>3</sub>	6. (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
ART THREE: Directions: So final answer and round to		Be sure to show all work. Use units in your
7. How many moles are in	15.0 grams of lithium, Li?	
8. How many grams are in	4.5 moles of sodium fluoride,	NaF?
9. How many moles are in 9	98.3 grams of A1(OH).?	

