	$m_{c_r}$
2C: Review: p.123	Name DESK MOD_
Review the following worksheets:	2 637 Charles on the control of the
2C.1 Sources of Resources	
2C.3 Practice with the Mole (These are two s	eparate worksheets)
<b>Determining Molar Masses</b>	0.48/2.0 = 94.0
2C.4 Conservation Must Be Our Way	
	J-36 = 13 1/1 x-2 = 12
<b>Review Questions:</b>	
1. List the three major physical regions of Earn region takes up.  Atmosphere Hydro spl	th and briefly explain what part of the earth each
11900 391	ure l'inospière
2. Which of these regions serves as the major 'manufacturing consumer that a	'storehouse" of chemical resources used in

3. What is an ore? a naturally occurring rock or numeral from which it is profitable to recover a metal or other

Reduce Rethink

manufacturing consumer products?

material

being practiced?

Recycle

Reuse

Replace

Lithosphere

4. a) What are the four "R's" of resources conservation and management?

Rense

b) When ethanol is added to gasoline, which of the four "R's" is being practiced?

replace

c) If I decide to give outgrown clothing to the Salvation Army, which of the four "R's" is

9. How many grams are in 3.3 moles of potassium sulfide, K<sub>2</sub>S?

$$K = 2 \times 39.1 = 78.2$$
  
 $S = 1 \times 32.1 = 32.1$   
 $110.3 \times 3.3 = 364$  grams

10. How many grams are there in 0.25 moles of H<sub>2</sub>SO<sub>4</sub>?

$$H=2 \times 1.0 = 2.0$$
  
 $S=1 \times 32.1 = 32.1$   
 $0=4 \times 16.0 = 64.0$   
 $98.1 \times .25 = 24.59$ 

11. a) Balance the following equation:

$$3 \text{ Mg} + 2 \text{AlCl}_3 \rightarrow 3 \text{ MgCl}_2 + 2 \text{ Al}$$

b) How many moles of each reactant and product are specified by the balanced chemical equation?

3 moles Mg + 2 moles AlC/3 -> 3 moles Mg Uz + 2 mole A.

c) Prove the Law of Conservation of Matter by determining the number of grams specified by the moles of each reactant and product.

3 moles Mg + Junoles AlCl3 -> 3 moles MgCl2 + Junoles Al  

$$3 \times 24.3$$
  $Al = 1 \times 27.0 = 27.0$   $Mg = 1 \times 24.3 = 24.3$   $2 \times 27.0 = 21.0$   $Cl = 3 \times 35.5 = 106.5$   $Cl = 3 \times 35.5 = 71.0$   $95.3$   $133.5$ 

339.9

729 + 267=

339,9