| Name _. | Date Per |
|-------------------|---|
| Write out | Moles, Molecules and Grams Worksheet-JQ tyour work on another piece of paper. You need to show your work for credit. Be sure to add units to your answer. |
| 1) | How many molecules are there in 24 grams of FeF ₃ ? |
| 2) | How many molecules are there in 450 grams of Na ₂ SO ₄ ? |
| 3) | How many grams are there in 2.3×10^{24} atoms of silver? |
| 4) | How many grams are there in 7.4 x 10 ²³ molecules of AgNO ₃ ? |
| 5) | How many grams are there in 7.5×10^{23} molecules of H_2SO_4 ? |
| 6) | How many molecules are there in 122 grams of Cu(NO ₃) ₂ ? |
| 7) | How many grams are there in 9.4×10^{25} molecules of H_2 ? |
| 8) | How many atoms are there in 230 grams of CoCl ₂ ? |
| 9) | How many molecules are there in 2.3 grams of NH ₄ SO ₂ ? |
| 10) | How many grams are there in 3.3×10^{23} molecules of N_2I_6 ? |
| 11) | How many molecules are there in 200 grams of CCl ₄ ? |
| 12) | How many grams are there in 1 x 10^{24} molecules of BCl ₃ ? |
| 13) | How many grams are there in 4.5×10^{22} molecules of Ba(NO ₂) ₂ ? |
| 14) | How many molecules are there in 9.34 grams of LiC1? |
| 15) | How many grams do 4.3 x 10 ²¹ molecules of UF ₆ weigh? |

How many molecules are there in 230 grams of NH_4OH ?

16)

| Name | Date | Per | |
|---|--|--|------|
| Write out your work on another piece of paper. You no | eed to show your work for credit. Be s | ure to add units to your answer. | |
| Determine how many atoms or mole 17) 0.30 mol F | ecules are in each of the fo | ollowing substances | |
| 18) 0.70 mol iron | | | |
| 19) 4.0 mol Na | | | |
| 20) 4.0 mol NH ₃ | | | |
| Determine the number of moles in ea | ach of the following subst | tances | |
| 21) 8.0 x 10^13 atoms Ag | | | |
| 22) 5.7 x 10^25 atoms potassium | | | |
| 23) 3.5 x 10^23 molecules of water | | | |
| 24) 1.86 x 10^25 molecules of metha | ane | | |
| Mole Calculations from Everett Con 25) How many moles are in 40.0 gra | • | g Center Student Support Services Prog | gram |
| 26) How many grams are in 3.7 mol | es of Na ₂ O? | | |
| 27) How many atoms are in 14 mole | es of cadmium? | | |
| 28) How many moles are in 4.3 x 10 | 0^22 molecules of H ₃ PO ₄ ? | ? | |
| 29) How many molecules are in 48.0 |) grams of NaOH? | | |
| 30) How many grams are in 4.63 x 1 | 0^24 molecules of CCl ₄ ? | | |