NAME: **HONORS CHEMISTRY**

SECTION: Pairs Check: Mole & Mass Conversions

Directions:

1. Put both names on the paper.
2. The older partner does the even problems. The younger partner does the odd problems. Take turns answering the questions. As you work, explain how you are doing the problem while your partner listens.
3. After each problem, discuss the answer with your partner. If both partners agree on the answer, the solver initials the answer. If an agreement can’t be reached, both partners raise their hands to get the teacher’s attention.
4. Complete the self-assessment and sign both papers.

Complete the following problems. You will need a periodic table and a calculator.

1. What is the molar mass of platinum? Include units with your answer.
2. What is the molar mass of rhodium? Include units with your answer.
3. Calculate the mass of a 0.75 mole sample of platinum. Use factor label and show your work.
4. Calculate the mass of a 3.48 mole sample of rhodium. Use factor label and show your work.
5. A sample of neon has a mass of 96.45 g. How many moles of neon are present? Use factor label and show your work.
6. Determine the number of moles in a 11.3 g sample of argon. Use factor label and show your work.
7. What is the molar mass of oxygen, O2?
8. What is the molar mass of bromine, Br2?
9. How many moles are present in a sample containing 80.6 g of molecular oxygen, O2? Use factor label and show your work.
10. Calculate the mass of a 0.961 mol sample of bromine. Use factor label and show your work.

The purpose of this assignment was to: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Did I: | Circle the appropriate response: |
| Explain how I did the problems? | Always Sometimes Rarely |
| Listen while my partner explained? | Always Sometimes Rarely |
| Give my partner positive support? | Always Sometimes Rarely |
| Stay on task during the assignment? | Always Sometimes Rarely |
| Use encouraging and polite words? | Always Sometimes Rarely |
| Record my work on the paper? | Always Sometimes Rarely |
| Demonstrate an understanding of the material? | Yes No |

Signatures:

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Comments: