

Name _____ Period _____ Date _____

Moles-to-Mass Worksheet 3

- Solve for the necessary information as stated below
- ***You must set up equations using proper units and show work***
- Clearly indicate the molar mass of each element or compound
- *Remember*
 - *Round all molar mass values to one decimal*
 - *Write final answers using correct sig figs*

Determine the molar mass of the following elements or compounds

1. Beryllium acetate

2. Lithium phosphate

3. Lead(IV) sulfate

4. Potassium chloride

5. Gold

6. Selenium

7. Ammonium hydroxide

8. Diphosphorus tetraiodide

9. Sulfur hexafluoride

10. Tetraphosphorus decaoxide

Name _____ Period _____ Date _____

Convert the following quantities from moles to grams using the molar mass of each substance

11. 0.394 mol water

12. 1.11 mol magnesium

13. 9.22 mol argon

14. 5.80 mol zinc hydroxide

15. 7.22 mol hydrochloric acid

16. 3.62 mol iron(III) chloride

17. 1.11×10^3 mol carbon tetrachloride

18. 15.4 mol ammonia

Name _____ Period _____ Date _____

Convert the following quantities from grams to moles using the molar mass of each substance

19. 46.4 g carbon tetrachloride

20. 0.500 g lead

21. 88.5 g aluminum carbonate

22. 556.2 g copper(II) hydrogen sulfate

23. 6.67 g helium gas

24. 4.87×10^2 g ammonium

25. 3.05×10^4 g lead(IV)bromide

26. 249 g tricarbon dioxide
