

CHE 101 - Extra Practice - Ch 7a
Molecular Weight and Conversions

Name: _____

Date: _____

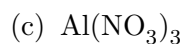
1. Calculate the molecular weights in (g/mol) for the following compounds. Show work to receive credit.



1(a) _____



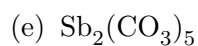
1(b) _____



1(c) _____



1(d) _____



1(e) _____

2. Moles of Kr in 12.4 grams of Kr.

2. _____

3. How many atoms of S are in 23.25 grams of $Na_2S_2O_3$

3. _____

4. How many molecules of NaCl are in 5.00 moles of NaCl

4. _____

5. Convert 2.50×10^{24} molecules of $BaCl_2$ to grams of $BaCl_2$

5. _____

6. Convert 45.0 grams of $NaNO_3$ to molecules of $NaNO_3$

6. _____

7. How many moles of H_2SO_4 are in 250.0 mL of H_2SO_4

7. _____

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8. How many atoms of N are in one molecule of $(\text{NH}_4)_2\text{SO}_4$ 8. _____
9. How many atoms of O are in 5.00 moles of $\text{Ca}(\text{CO}_3)_2$ 9. _____
10. Convert 5.35×10^{26} molecules of H_2SO_4 to moles of H_2SO_4 10. _____
11. How many grams of Al in 25.0 mL of Al 11. _____
12. Convert 2.50 moles of Pb to grams of Pb 12. _____
13. Convert 350.0 grams of B_2O_3 to moles B_2O_3 13. _____
14. How many molecules of $(\text{NH}_4)_3\text{PO}_4$ are in 35.25 grams of $(\text{NH}_4)_3\text{PO}_4$ 14. _____
15. Convert 2.525 moles of $\text{Al}(\text{NO}_3)_3$ to grams of $\text{Al}(\text{NO}_3)_3$ 15. _____
16. Convert 2.00 grams of FeCl_3 to moles of FeCl_3 16. _____
17. How many atoms of Mg are in 15.0 mL of Mg 17. _____