

Name _____ Date _____ Period _____ AGS WB 23

Percent Composition

Directions Put the steps for calculating percent composition in order from first step to last step. The answer to number one (1) would be the first step. The answer to number five (5) would be the last step.

_____ Divide the total molar mass of each element by the molar mass of the compound.

_____ Find the total molar mass of each element in the compound.

_____ Check that each element has a percentage and that the percentages add up to 100%.

_____ Multiply by 100%.

_____ Find the molar mass of the entire compound.

Directions Write the answer to each question. Use correct units, significant figures, and dimensional analysis. If necessary, use the back side of the paper.

6. What are the units of percent composition?

7. Which compound has the highest percent of iron by mass, FeO or FeCl₂?

8. What is the percent of hydrogen in H₂S?

9. Which element has the highest percent by mass in NaOH?

10. What is the percent composition of Na₃PO₄?