

Guided Reading: Chapter 8

Zumdahl: Introductory Chemistry: A Foundation, 5th Ed.

Answer as complete statements on a separate sheet of paper!

1. List five products that are the result of chemical synthesis? When a new substance is produced, what is the first order of business? What two things must chemists know about this substance?
2. Why can atoms not be counted individually? What method is used to count atoms? Describe this method in detail.
3. What is an average mass? If we determined the average mass of a group of jelly beans, would any individual jelly bean likely have that average mass?
4. What is PVDF? What is it used for?
5. What is an atomic mass unit? What is its abbreviation? What is an amu equal to in grams?
6. What is average atomic mass? Where would you find average atomic masses for the elements? What is the average atomic mass of carbon?
7. What is the average atomic mass of a single atom of nitrogen? What is the average atomic mass of a mole of nitrogen atoms?
8. Distinguish between atomic mass and molar mass.
9. What is a mole? What is Avogadro's Number?
10. What is true of the number of atoms in a mole of any substance?
11. How can the number of moles of an element be calculated if the mass of the element is known in grams? Show an example of such a calculation.
12. How can the number of grams of an element be calculated if the number of moles of the element is known? Show an example of such a calculation.
13. How can the number of atoms found in an element be calculated if the mass of the element is known? Show an example of such a calculation.
14. What is the molar mass of a compound? How is it calculated? Show an example of such a calculation.
15. What is % Composition of a compound? How is it calculated? Show an example of such a calculation.
16. What is mass percent? What must the mass percents of all elements in a compound total to?
17. If you have a binary compound and you know that one element's mass percent is 42.65%, what is the percent of the remaining element?
18. What is an empirical formula? Give an example.
19. What is a molecular formula? Give an example.

Chapter 8 Guided Reading Answers

Lingsheng Yao



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web the diocese offered a mass and committal service at one of its catholic cemeteries and provided free of charge a common vault in a mausoleum for the interment of the cremated remains the names of the deceased interred there were kept on file though in this case they were not individually inscribed on the vault

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web oct 10 2023 here is one prayer that you may consider for the graveside service of your catholic family member incline thine ear o lord unto our prayers wherein we humbly pray thee to show thy mercy upon the soul of thy servant whom thou hast commanded to pass out of this world that thou wouldst place him in the region of peace and light and

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