

# Compounds and Mixtures

Name \_\_\_\_\_ Per. \_\_\_\_\_

Page 273

1. What are two different kinds of substances?
2. Water is a \_\_\_\_\_ made from a chemical combination of two \_\_\_\_\_. These are \_\_\_\_\_ and \_\_\_\_\_.
3. What is the ratio of hydrogen to oxygen in water?
4. What is another liquid compound that can be made from the elements hydrogen and oxygen? \_\_\_\_\_ Compare the properties of this other liquid with water.
5. What is the ratio of hydrogen to oxygen in the compound hydrogen peroxide?
6. What are two compounds that can be made from the elements carbon and oxygen?
7. In the chemical formula for carbon dioxide,  $\text{CO}_2$ , what does the subscript 2 mean?
8. How many total atoms are there in one unit of hydrogen peroxide,  $\text{H}_2\text{O}_2$ ? \_\_\_\_\_
9. How many total atoms are there in 5 molecules of water? \_\_\_\_\_
10. Are mixtures a type of new substance formed by two or more other substances? \_\_\_\_\_
11. Put an "M" next to the mixtures, a "C" next to compounds, and an "E" next to elements below:  
AIR \_\_\_\_\_ WATER \_\_\_\_\_ BLOOD \_\_\_\_\_ IRON \_\_\_\_\_  
MILK \_\_\_\_\_ CARBON \_\_\_\_\_ CARBON DIOXIDE \_\_\_\_\_
12. Use a Venn diagram below or on back to compare and contrast a mixture and a compound.