

## True and False

If the statement is true, write **True** in the blank, if the statement is false write the word or words that make the statement true.

- \_\_\_\_\_ 22. A change that produces a new substance is a chemical change.
- \_\_\_\_\_ 23. Synthesis is the process of making a more complex compound from simpler substances.
- \_\_\_\_\_ 24. Chemical reactions that absorb energy are said to be exothermic.
- \_\_\_\_\_ 25. The materials present at the beginning of a chemical reaction are called the products.
- \_\_\_\_\_ 26. The amount of matter in a chemical reaction changes.
- \_\_\_\_\_ 27. In a chemical reaction, chemical bonds are formed or broken.
- \_\_\_\_\_ 28. In a chemical reaction, the total mass of the reactants is greater than the total mass of the products.



N

H



Fe

O

31. **A log burns in a fireplace, giving off gases and leaving behind ash.**

Is the reaction endothermic or exothermic.

Did the products gain energy or lose energy.

Was energy absorbed or given off.

32. **When vinegar and baking soda are mixed, new substances form and the solution becomes cooler.**

Is the reaction endothermic or exothermic.

Did the products gain energy or lose energy.

Was energy absorbed or given off.

*Identify one or more choices that best complete the statement or answer the question.*

- \_\_\_\_\_ 33. Which of the following would be an example of an inhibitor? **(pick all that apply)**
- a. additives in gasoline slow the burning
  - b. proteins called enzymes in your body speed up the bodies functions.
  - c. adding salt to a vinegar solution to speed up the cleaning corrosion off of pennies.
  - d. food perservatives that slow spoiling
- \_\_\_\_\_ 34. The only sure evidence of a chemical reaction is **(pick all that apply)**
- a. the production of a new substance
  - b. changes in energy
  - c. a color change
  - d. the formation of a gas