Brainpop—Conservation of Mass

Name:

Period:

Watch the Brainpop on the conservation of mass, then answer the questions below.

1. In science, what is a law? 4. Sodium and chlorine combine to form sodium chloride (table salt). What role do a. a rule telling you what you are permitted to the sodium and the chlorine have? do a. a role as producers b. a generalization about how the physical universe works b. a role as products c. a legal document that describes how to c. a role as reactionaries behave d. a role as reactants 2. The law of conservation of mass says...? 5. When sodium and chlorine combine to form a. substances can neither be built nor torn sodium chloride, what do we call the sodium down chloride? b. substances can neither be blended a. an originator together nor separated b. a reactant c. substances can neither be created nor c. a product destroyed d. produce d. substances can neither be condensed nor extracted 6. What do 4 grams of hydrogen and 32 grams of oxygen form when they combine? 3. What is true about a substance with a lot of a. 36 grams of water mass? b. 28 grams of hydroxide a. it contains a lot of matter c. 32 grams of oxygen b. it has a large volume c. it has a high density

_____7. In a chemical reaction, 4 grams of sodium must combine with how many grams of chlorine to produce 10 grams of table salt?

- a. 4 grams
- b. 6 grams
- c. 8 grams
- d. 10 grams

Determine if the statement is true or false. If false, replace the word in **bold** with the correct word on the line. If true, write "true" on the line. Possible word choices are provided below:

mass products

2. _____ In a recipe, ingredients would have the same job as REACTANTS.

Imagine that you weigh an unbroken egg in a bowl on top of a scale. You then drop the egg into the bowl on the scale so it breaks open, destroying the shell. Would you now expect the scale to read less than the unbroken egg, the same, or more than the unbroken egg? Explain your answer.