

Name: _____ Date: _____ Period: _____

Law of Conservation of Mass Worksheet

Fill in the blank with the correct number:

- 1) 40 g of calcium reacts with 71 g of chlorine to produce _____ g of calcium chloride.
- 2) _____ g of potassium reacts with 16 g of oxygen to produce 94 g of potassium oxide.
- 3) 14 g of lithium reaction with _____ g sulfur to produce 46 g of lithium sulfide.
- 4) 24 g of magnesium reacts with 38 g of fluorine to produce _____ g magnesium fluoride.
- 5) 65.5 g copper reacts with _____ g oxygen to produce 81 g copper (I) oxide.
- 6) 88 g of strontium reacts with 160 g bromine to produce _____ g strontium bromide.
- 7) 46 g of sodium reacts with _____ g chlorine to produce 117 g sodium chloride.
- 8) _____ g iron reacts with 71 g chlorine to produce 129 g of iron (II) chloride.
- 9) 137 g of barium reacts with _____ g iodine to produce 391 g barium iodide.
- 10) _____ g hydrogen reacts with 32 g of oxygen to produce 34 g of hydrogen peroxide.
- 11) Why do we balance chemical reactions?

12) Identify the type of reaction and balance the following reactions:

