Chemistry 20: Qualitative and Quantitative

1. **Numerical response question**

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Left justify your answer in the boxes provided

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| Identify the observations from the following list that are qualitative.  Record your answer(s) in ascending order.   1. The reaction between KClO4(s) and sugar produces a bright flame. 2. 5 mol of oxygen are consumed in a combustion reaction. 3. A white precipitate is formed in the reaction between Li(OH)2(s) and Mg(s) 4. The reaction between luminal and potassium ferricyanide produces a glowing solution 5. Chemicals reacted in a bomb calorimeter cause the temperature of the water to increase by 66 oC. |

1. **Numerical response question**

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Left justify your answer in the boxes provided

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| Lisa and Kelsey were in the lab and recorded the following observations.   * The temperature rose 5.0 oC * The reaction produced heat. * 0.30 mol of solid formed. * The reaction released bubbles. * The precipitate was yellow.   There are \_\_\_\_\_\_ quantitative observations and \_\_\_\_\_ qualitative observations. |
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Solutions:

1. 134
2. 23