

Chemistry 20: Qualitative and Quantitative

1. Numerical response question

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Left justify your answer in the boxes provided

Identify the observations from the following list that are qualitative.

Record your answer(s) in ascending order.

1. The reaction between $\text{KClO}_{4(s)}$ 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 $\text{Li}(\text{OH})_{2(s)}$ and $\text{Mg}_{(s)}$
4. The reaction between luminol and potassium ferricyanide produces a glowing solution
5. Chemicals reacted in a bomb calorimeter cause the temperature of the water to increase by 66°C .

2. Numerical response question

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Left justify your answer in the boxes provided

Lisa and Kelsey were in the lab and recorded the following observations:

- The temperature rose 5.0°C
- 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.

Solutions:

1. 134
2. 23