Chemistry 20 : Reaction types:

1. **Numerical response question**

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Left justify your answer in the boxes provided.

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| Consider the list of reactions given below1. Zn(s) + NiCl2(aq) 🡪 ZnCl2(aq) + Ni(s)
2. CH4(g) + 2O2(g) 🡪 CO2(g) + 2H2O(g)
3. 3CaCl2(aq) + Al2(SO4)3(aq) 🡪 3CaSO4(s) + 2AlCl3(aq)
4. N2(g) + 3H2(g) 🡪 2NH3(g)
5. 2H2O(l) 🡪 2H2(g) + O2(g)

Match the numbers with the following reaction types:\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_Synthesis double replacement single replacement |

1. **Numerical response question**

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Left justify your answer in the boxes provided

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| Gerald and Lyndon are performing experiments in the chemistry lab. Lyndon wants to produce carbon dioxide (CO2(g)) and water (H2O(g)). Identify the possible reactant(s) that he might use to accomplish this.1. O2(g)
2. Cl2(g)
3. C3H8(g)
4. CCl4(g)
5. C5H10(g)
6. C2H5OH(l)
7. CF4(g)

Put the answers in ascending order.1. **Numerical response question**

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Left justify your answer in the boxes provided. |
| Consider the incomplete single replacement reaction below.Li(s) + MgF2(s) 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Predict the product(s) of this reaction using the list below.1. Li2Mg(s)
2. Mg(s)
3. LiF(s)
4. Li(s)
5. LiF(aq)

Put the answer(s) in ascending order |
| 1. **Numerical response question**

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Left justify your answer in the boxes provided.

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| Consider the list of reactions given below1. Cu(s) + NiCl2(aq) 🡪 CuCl2(aq) + Ni(s)2. CH4(g) + 2O2(g) 🡪 CO2(g) + 2H2O(g)3. 3CuCl2(aq) + Al2(SO4)3(aq) 🡪 3CuSO4(s) + 2AlCl3(aq)4. Cl2(g) + H2(g) 🡪 2HCl(g)5. 2H2O2(l) 🡪 H2(g) + O2(g)Match the numbers with the following reaction types:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_decomposition combustion formation  |
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Solutions:

1. 413
2. 1356
3. 23
4. 524