SPRING BENCHMARK #1 Review Problems – CHUNK #2

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| Q# | ***Balance the following equations using the smallest whole numbers possible.*** | Type |
| 1 |  \_\_\_Mg(s) + \_\_\_O2(g) —> \_\_\_MgO(s) |  |
| 2 | \_\_\_C8H18(g) + \_\_\_O2(g) —> \_\_\_CO2(g) + \_\_\_H2O(g) |  |
| 3 | \_\_\_Cu(s) + \_\_\_H2O(g) —> \_\_\_H2(g) + \_\_\_Cu2O |  |
| 4 | \_\_\_AgCl (aq) + \_\_\_H2S(aq) —> \_\_\_Ag2S(s) + \_\_\_HCl(aq) |  |
| 5 | \_\_\_CaCO3(s) —> \_\_\_CaO(s) + \_\_\_CO2(g) |  |
| 6 | \_\_\_Cu(s) + \_\_\_S8(s) —> \_\_\_CuS(s) |  |
| 7 | \_\_\_H2S(aq) + \_\_\_NaOH(aq) —> \_\_\_H2O(l) + \_\_\_Na2S(aq) |  |
| 8 | \_\_\_\_Al2(SO4)3 + \_\_\_\_ Ca(OH)2 —> \_\_\_\_Al(OH)3 + \_\_\_\_ CaSO4 |  |
| 9 | \_\_\_ Al + \_\_\_ HCl —> \_\_\_AlCl3 + \_\_\_ H2 |  |
| Q# | ***Predict the products, balance the equation, then classify the type of reaction:*** | Type |
| 10 | \_\_\_\_ Na + \_\_\_\_ FeBr3 🡪 |  |
| 11 | \_\_\_\_ NaOH + \_\_\_\_ H2SO4 🡪 |  |
| 12 | \_\_\_\_ C2H4O2 + \_\_\_\_ O2 🡪 |  |
| 13 | \_\_\_\_ NH3 + \_\_\_\_ H2O 🡪 |  |
| 14 | \_\_\_\_ PbSO4 + \_\_\_\_ AgNO3 🡪 |  |
| 15 | \_\_\_\_ PBr3 🡪 |  |
| 16 | \_\_\_\_ HBr + \_\_\_\_ Fe 🡪 |  |
| 17 | \_\_\_\_ KMnO4 + \_\_\_\_ ZnCl2 🡪 |  |
| 18 | \_\_\_\_MnO2 + \_\_\_\_ Sn(OH)4 🡪 |  |
| 19 | \_\_\_\_ O2 + \_\_\_\_ C5H12O2 🡪 |  |
| 20 | \_\_\_\_ H2O2 🡪 |  |
| 21 | \_\_\_\_ PtCl4 + \_\_\_\_ Cl2 🡪 |  |