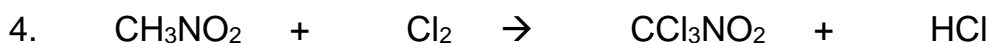
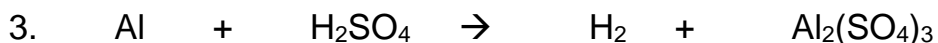
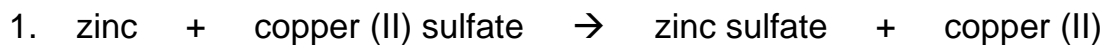


Part A: Balance each of the following skeleton equations.



Part B: Write a balanced chemical equation for each of the following word equations. Include states.



Part C: Write a balanced chemical equation for each of the following reactions. Include states.

1. Solutions of beryllium iodide and tin (IV) nitrate react to produce solutions of beryllium nitrate and tin (IV) iodide.
2. Water and gold are the products of the reaction between solid gold (III) oxide and hydrogen gas.
3. Water vapour and chlorine gas are produced when oxygen gas is added to gaseous hydrogen chloride.
4. Aqueous potassium chromate reacts with aqueous aluminum chloride to yield potassium chloride solution and solid aluminum chromate.
5. Solid xenon trioxide and hydrogen fluoride gas are the products of a violent reaction between gaseous xenon hexafluoride and water.
6. A solution of manganese (II) chloride and a precipitate of lead (IV) sulfide are produced when a solution of manganese (II) sulfide is added to a solution of lead (IV) chloride.

Answers:

Part A: 1. 2, 1, 1, 2 3. 2, 3, 3, 1 5. 1, 2, 2, 1
2. 1, 1, 2, 1 4. 1, 3, 1, 3

Part B: 1. 1, 1, 1, 1 3. 1, 2, 1, 2 5. 1, 3, 1, 3
2. 4, 3, 2 4. 2, 1, 1, 2

Part C: 1. 2, 1, 2, 1 3. 1, 4, 2, 2 5. 1, 3, 1, 6
2. 1, 3, 3, 2 4. 3, 2, 6, 1 6. 2, 1, 2, 1