## Answer on Question #69149 - Chemistry - Other

## Task:

Balance the following redox reaction. When this equation is properly balanced, using the smallest whole number coefficients, what are the coefficients on each substance?

$$AI(s) + Cu^{2+}(aq) = AI^{3+}(ag) + Cu(s).$$

## **Solution:**

The reaction equation:

$$Al + Cu^{2+} = Al^{3+} + Cu$$
:

$$Al^{0} - 3e = Al^{3+};$$
  
 $Cu^{2+} + 2e = Cu^{0} |;$   
 $2Al + 3Cu^{2+} = 2Al^{3+} + 3Cu;$ 

2,3,2,3

 $Cu^{2+}$  – oxidizing agent; Al – reducing agent;

**Answer:** B. 2,3,2,3.

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