Balancing Equations Quiz

Name:

Balance the following equations. Complete all parts of the question for full credit. 6 questions total, plus 1 bonus question on the final page.

1.
$$__Al + ___CuSO_4 \rightarrow ___Al_2(SO_4)_3 + ___Cu$$

- a. Number of atoms in reactants:
- b. Number of atoms in products:
- c. Final ratio of coefficients:
- d. Rewrite the final balanced equation:

2.
$$Al + HCl \rightarrow AlCl_3 + H_2$$

- a. Number of atoms in reactants:
- b. Number of atoms in products:
- c. Final ratio of coefficients:
- d. Rewrite the final balanced equation:

- 3. $__FeSl + ___HBr \rightarrow ___FeBr_2 + ___H_2S$
 - a. Number of atoms in reactants:
 - b. Number of atoms in products:
 - c. Final ratio of coefficients:
 - d. Rewrite the final balanced equation:
- 4. $Mg + N_2 \rightarrow Mg_3N_2$
 - a. Number of atoms in reactants:
 - b. Number of atoms in products:
 - c. Final ratio of coefficients:
 - d. Rewrite the final balanced equation:

- 5. $P_2O_5 + H_2O \rightarrow H_3PO_4$
 - a. Number of atoms in reactants:
 - b. Number of atoms in products:
 - c. Final ratio of coefficients:
 - d. Rewrite the final balanced equation:
- 6. $__CaI_2 + ___H_2SO_4 \rightarrow ___ZnSO_4 + ___H_2O$
 - a. Number of atoms in reactants:
 - b. Number of atoms in products:
 - c. Final ratio of coefficients:
 - d. Rewrite the final balanced equation:

- a. Number of atoms in reactants:
- b. Number of atoms in products:
- c. Final ratio of coefficients:
- d. Rewrite the final balanced equation: