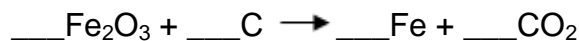


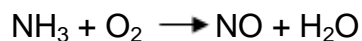
Prep for Basic Chemistry: Competency 8 Practice

1. What are the correct coefficients for the following chemical equation?



- A 2; 4; 3; 3
- B 2; 2; 4; 3
- C 2; 3; 4; 3
- D 2; 4; 4; 3

2. What is the coefficient of NO once the following equation is balanced?



- A 3
- B 2
- C 6
- D 4
- E 5

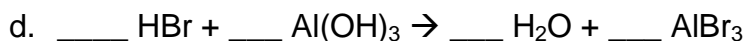
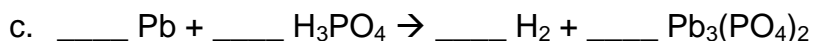
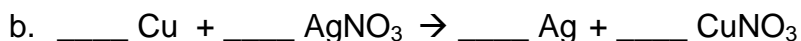
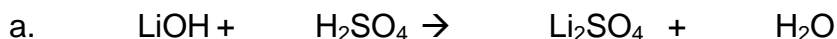
3. Which of the following is a correctly written balanced equation?

- A $\text{NaBr} + \text{Cl}_2 \rightarrow \text{NaCl}_2 + \text{Br}$
- B $\text{CH}_4 \rightarrow \text{C} + 2\text{H}_2$
- C $\text{FeS} + 2\text{HCl} \rightarrow \text{HS} + \text{FeCl}_2$
- D $\text{CaOH} + \text{HCl} \rightarrow \text{CaCl} + \text{H}_2\text{O}$

4. A coefficient is the...

- A whole number in front of a chemical formula used to balance a chemical equation
- B Subscript written below and after a polyatomic ion in parentheses.

5. Balance the following chemical equations:



6. Write the symbols for two of the diatomic elements:

- a. _____
- b. _____

7. How many atoms of each type are present in these compounds?

