

Select the best answers.

Which of the following statements about polyatomic ions are correct?

ATTEMPT 1



Polyatomic ions are always made up of metallic atoms.



The charge on polyatomic ions belongs to a group of atoms.



Polyatomic ions behave as a single ion.



Polyatomic ions are donated by only one type atom.



The charges of polyatomic ions belong to only one single atom.



Polyatomic ions are always made up of three or more atoms.

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Select the best answer.

Which of the following is the correct chemical formula for ammonium sulfide?

Periodic Table of the Elements

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☐ NH_4S_2

☐ $(\text{NH}_4)\text{S}$

☒ $(\text{NH}_4)_2\text{S}$



☐ $(\text{NH}_4)_2\text{S}_2$

Select the best answers.

The ammonium ion is a polyatomic ion. Which of the following statements are true about the ion?

ATTEMPT 1

☐

The overall charge of the ammonium ion is $1-$.

☐

The charge is equal to the number of atoms in the polyatomic ion.

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☒

Multiple ammonium ions in a compound is indicated by parentheses around it. ✓

☐

The ammonium ion will only form an ionic bond with metals.

☒

Ammonium ion behaves as one ion. ✓

☒

The overall charge of the ammonium ion is $1+$. ✓

Select the best answer.

Which of the following is the correct chemical formula for the compound formed between magnesium (Mg^{2+}) and cyanide (CN^-)?



$\text{Mg}(\text{CN})_2$

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MgCN_2



$\text{Mg}_2(\text{CN})$



$\text{Mg}_2(\text{CN})_2$

Fill in the blanks with the best answer to complete the sentence.

Use the subscript feature if applicable and do not use spaces.

Calcium (Ca) ion has a charge of $2+$. A phosphide (P) ion has a charge of $3-$. The chemical formula

for calcium phosphide is:

1. Ca_3P_2



1.

Ca_3P_2

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Select the best words from the drop-down menus to complete the sentences.

The 1. formula unit ✓ ▼ shows the simplest ratio of an ionic compound. When writing the chemical formula for an ionic compound, the cation comes first. If there are multiples of any ion, a

2. subscript ✓ ▼ number is used to indicate the ratio.

1. formula unit

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2. subscript

