Lewis Structure Worksheet

1. Draw Lewis dot structures for each of the following elements:

A) antimony B) magnesium C) silicon D) iodine

1. Draw the Lewis Structures for the following molecules.

|  |  |
| --- | --- |
| 1. CH4

Total # Valence Electrons: Lewis Structure: | 1. H2O

Total # Valence Electrons: Lewis Structure: |
| 1. ClO3-

Total # Valence Electrons: Lewis Structure: | 1. HCN

Total # Valence Electrons: Lewis Structure: |
| 1. H3O+

Total # Valence Electrons: Lewis Structure: | 1. NH3

Total # Valence Electrons: Lewis Structure: |
| 1. NH2-

Total # Valence Electrons: Lewis Structure: | 1. N3-

Total # Valence Electrons: Lewis Structure: |
| 1. NH4+

Total # Valence Electrons: Lewis Structure: | 1. NOF

Total # Valence Electrons: Lewis Structure: |
| 1. C2H4

Total # Valence Electrons: Lewis Structure: | 1. ClF2+

Total # Valence Electrons: Lewis Structure: |
| 1. C2H2

Total # Valence Electrons: Lewis Structure: | 1. FNO2

Total # Valence Electrons: Lewis Structure: |
| 1. PO4-3

Total # Valence Electrons: Lewis Structure: | 1. CH2O

Total # Valence Electrons: Lewis Structure: |
| 1. H2O2

Total # Valence Electrons: Lewis Structure: | 1. F2O

Total # Valence Electrons: Lewis Structure: |

Lewis Structure Worksheet Key

1. Draw Lewis dot structures for each of the following elements:

A) antimony B) magnesium C) silicon D) iodine

 Sb Mg Si I

1. Draw the Lewis Structures for the following molecules.

|  |  |
| --- | --- |
| 1. CH4

Total # Valence Electrons: **8**Lewis Structure: | 1. H2O

Total # Valence Electrons: **8**Lewis Structure: |
| 1. ClO3-

Total # Valence Electrons: **26**Lewis Structure: | 1. HCN

Total # Valence Electrons: **10**Lewis Structure: |
| 1. H3O+

Total # Valence Electrons: **8**Lewis Structure: | 1. NH3

Total # Valence Electrons: **8**Lewis Structure: |
| 1. NH2-

Total # Valence Electrons: **8**Lewis Structure: | 1. N3-

Total # Valence Electrons: **16**Lewis Structure: |
| 1. NH4+

Total # Valence Electrons: **8**Lewis Structure: | 1. NOF

Total # Valence Electrons: **18**Lewis Structure: |
| 1. C2H4

Total # Valence Electrons: **12**Lewis Structure: | 1. ClF2+

Total # Valence Electrons: **20**Lewis Structure: |
| 1. C2H2

Total # Valence Electrons: **10**Lewis Structure: | 1. FNO2

Total # Valence Electrons: **24**Lewis Structure:**Resonance** |
| 1. PO4-3

Total # Valence Electrons: **32**Lewis Structure: | 1. CH2O

Total # Valence Electrons: **12**Lewis Structure: |
| 1. H2O2

Total # Valence Electrons: **14**Lewis Structure: | 1. F2O

Total # Valence Electrons: **20**Lewis Structure: |