

Please answer the following questions:

1. How many electrons are shown in the Lewis electron-dot structure of Nitrogen (N)?
2. In Lewis structures, the valence electrons are represented by \_\_\_\_\_.
3. Please write the Lewis dot structure for Silicon (Si).
4. Please draw the Lewis dot structure for methane ( $\text{CH}_4$ ) below.
5. Please draw the Lewis dot structure for calcium chloride ( $\text{CaCl}_2$ ) below.