

41.5: Analysis

1. Compare the "dozens per 36 pieces" to the "moles per 1.806×10^{24} atoms". Describe any similarity in these sets of numbers.
2. Choose true (T) or false (F) for each statement about dozens, grams, and pieces.
 - a. Three dozen small paperclips and three dozen large paperclips have the same amount of mass.
 - b. Three dozen small metal nuts and three dozen large metal nuts have the same number of pieces.
 - c. A 15 gram sample of anything would contain the same number of pieces.
3. Choose true (T) or false (F) for each statement about moles, grams, and atoms.
 - a. Three moles of aluminum atoms and three moles of iron atoms have the same amount of mass.
 - b. Three moles of helium atoms and three moles of carbon atoms have the same number of atoms.
 - c. A 15 gram sample of any element would contain the same number of atoms.

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