

Chapter 4 Test Prep Answers

1. c
2. a
3. b
4. b
5. 9; Three Ca-42 atoms have an approximate mass of $3 \times 42 = 126$ amu; one N-14 atom has an approximate mass of 14 amu; $126/14 = 9$ N-14 atoms with an approximate mass of 126 amu.
6. e
7. false, true, since statement I is false, the explanation cannot be correct.
8. true, false, since statement II is false, it is not a correct explanation.
9. true, true, statement II is a correct explanation for statement I.