

Mole Conversions Practice

Name:

Convert each of the following to moles:

1. 5.32 grams water
2. 75.0 grams mercury (I) chloride
3. 4.87 grams sodium chloride
4. 56.7 grams H₂

Convert each of the following to grams:

5. 4.25 moles calcium carbonate
6. 56.7 moles carbon monoxide
7. 4.56 moles neon
8. 359 moles iron (III) oxide

Convert each of the following to moles:

9. 9.45×10^{11} atoms plutonium
10. 6.74×10^{24} ions sodium chloride
11. 4.36×10^3 molecules osmium (IIX) oxide or osmium tetroxide
12. 4.61×10^{27} molecules oxygen

Convert each of the following to molecules:

13. 45.0 moles lithium oxide
14. .005 moles silicon dioxide
15. 150 moles carbon dioxide
16. 55.6 moles NH₄

Complete the following 2 step conversions :

17. 5.7×10^5 molecules lead (II) bromide = ? grams
18. 348 g Cl₂=? Molecules
19. 1005 atoms californium = ? grams
20. 7.5×10^{50} grams of Na = ? atoms

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