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Moles Worksheet

1) Define "mole".

a mole is 6.02×10^{23}

2) How many moles are present in 34 grams of $Cu(OH)_2$?

0.35 moles

3) How many moles are present in 2.45×10^{23} molecules of CH_4?

0.41 moles

4) How many grams are there in 3.4×10^{24} molecules of NH_3?

96 g

5) How much does 4.2 moles of $Ca(NO_3)_2$ weigh?

689 g

6) What is the molar mass of MgO?

40.3 g/m

7) How are the terms "molar mass" and "atomic mass" different from one another?

molar mass refers to chemical compound and atomic mass refers to an element

8) Which is a better unit for expressing molar mass, "amu" or "grams/mole"?

grams/mole