

1.2 Mole Conversions Solutions

PRACTICE EXAMPLES- To complete the practice examples (1) write the type of question you have, (2) write the equation with units, (3) show the cancellation of units and (4) calculate the solution.

1. Determine how many atoms are present in 2.5 moles of Silicon? (**15.05×10^{23} atoms**)

MOLES \rightarrow ATOMS
$$\frac{2.5 \text{ _moles}}{1} \times \frac{6.022 \times 10^{23} \text{ _atoms}}{1 \text{ _mole}} = 15.05 \times 10^{23} \text{ atoms}$$

2. How many moles of Silicon is 3.01×10^{23} atoms? (**.5 moles**)

ATOMS \rightarrow MOLES
$$\frac{3.011 \times 10^{23} \text{ _atoms}}{1} \times \frac{1 \text{ _mole}}{6.022 \times 10^{23} \text{ _atom}} = .5 \text{ moles}$$

3. What is the mass of 4 moles of Iron? (**224 grams**)

MOLES \rightarrow GRAMS
$$\frac{4 \text{ _moles}}{1} \times \frac{55.9 \text{ _grams}}{1 \text{ _mole}} = 224 \text{ grams of C}$$

4. How many atoms are in 48.6 grams of Magnesium? (**12.04×10^{23} atoms**)

GRAMS \rightarrow ATOMS
$$\frac{48.6 \text{ _grams}}{1} \times \frac{1 \text{ _mole}}{24.3 \text{ _grams}} \times \frac{6.022 \times 10^{23} \text{ _atoms}}{1 \text{ _mole}} \approx 12.04 \times 10^{23} \text{ atoms}$$

5. How many grams are in 18.06×10^{23} atoms of Copper? (**190.5 grams**)

ATOMS \rightarrow GRAMS
$$\frac{18.06 \times 10^{23} \text{ _atoms}}{1} \times \frac{1 \text{ _mole}}{6.022 \times 10^{23} \text{ _atoms}} \times \frac{63.5 \text{ _grams}}{1 \text{ _mole}} \approx 190.5 \text{ grams}$$

6. How many moles of Nickel is 176 grams? (**3 moles**)

GRAMS \rightarrow MOLES
$$\frac{176 \text{ _grams _of _C}}{1} \times \frac{1 \text{ _mole}}{58.7 \text{ _grams}} \approx 3 \text{ moles}$$

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