

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
$$\frac{4 \text{ moles}}{1} \times \frac{55.9 \text{ grams}}{\text{mole}} = 224 \text{ grams of C}$$

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
$$\frac{176 \text{ grams of C}}{1} \times \frac{\text{mole}}{58.7 \text{ grams}} \approx 3 \text{ moles}$$

Test The Mole Mole Conversions Worksheet Answers Key

S Ben Porath



Test The Mole Mole Conversions Worksheet Answers Key:

Decoding **Test The Mole Mole Conversions Worksheet Answers Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Test The Mole Mole Conversions Worksheet Answers Key**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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