

## Mole Calculation Practice Worksheet

Answer the following questions:

- 1) How many moles are in 25 grams of water?

$$\frac{25 \text{ g H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} \times \frac{1 \text{ mol H}_2\text{O}}{1} = 1.4 \text{ moles}$$

- 2) How many grams are in 4.5 moles of  $\text{Li}_2\text{O}$ ?

$$\frac{4.5 \text{ mol Li}_2\text{O}}{1 \text{ mol Li}_2\text{O}} \times \frac{29.88 \text{ g Li}_2\text{O}}{1} = 130 \text{ g}$$

- 3) How many molecules are in 23 moles of oxygen?

$$\frac{23 \text{ mol O}_2}{1 \text{ mol O}_2} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1} = 1.4 \times 10^{25} \text{ molecules}$$

- 4) How many moles are in  $3.4 \times 10^{23}$  molecules of  $\text{H}_2\text{SO}_4$ ?

$$\frac{3.4 \times 10^{23} \text{ molecules H}_2\text{SO}_4}{6.02 \times 10^{23} \text{ molecules H}_2\text{SO}_4} \times \frac{1 \text{ mol H}_2\text{SO}_4}{1} = 0.56 \text{ moles}$$

- 5) How many molecules are in 25 grams of  $\text{NH}_3$ ?

$$\frac{25 \text{ g NH}_3}{17.03 \text{ g NH}_3} \times \frac{1 \text{ mol NH}_3}{1} \times \frac{6.02 \times 10^{23} \text{ molecules NH}_3}{1 \text{ mol NH}_3} = 8.8 \times 10^{23} \text{ molecules}$$

- 6) How many grams are in  $8.2 \times 10^{22}$  molecules of  $\text{N}_2\text{I}_4$ ?

$$\frac{8.2 \times 10^{22} \text{ molecules N}_2\text{I}_4}{6.02 \times 10^{23} \text{ molecules N}_2\text{I}_4} \times \frac{1 \text{ mol N}_2\text{I}_4}{1} \times \frac{789.42 \text{ g N}_2\text{I}_4}{1 \text{ mol N}_2\text{I}_4} = 110 \text{ g}$$

# Mole Calculations Practice Questions And Answers Please

**The Princeton Review**



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**Passing Calculations Tests for Nursing Students** Susan Starkings, Larry Krause, 2015-03-19 With an easy to use format this book is all your students need to face calculations tests with confidence and pass first time It teaches simple numeracy skills that will stand them in good stead both during your initial nurse training and during their career in practice Now with a dedicated website study sagepub com starkingskrause3e accompanying the book providing further questions and practice interactive tests a flashcard glossary and more Inside you ll find over 360 practice questions with an extra 400 available online easy to understand explanations that take the fear out of maths a diagnostic chapter to help students identify problem areas activities scenarios and case studies from every day nursing situations

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**Teaching Science for Understanding** James Joseph Gallagher, 2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities

*Study Guide/Selected Solutions Manual* Julie R. Frentrop, 2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book

**Bulletin of the Atomic Scientists** , 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

*Mines and Minerals* , 1912

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