

1/5/16

Mole Ratio Worksheet

Key

1) Given this equation: $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$, write the following molar ratios:

- a) N_2 / H_2 1:3
 b) N_2 / NH_3 1:2
 c) H_2 / NH_3 3:2

2) Given the following equation: $8\text{H}_2 + \text{S}_8 \rightarrow 8\text{H}_2\text{S}$, write the following molar ratios:

- a) $\text{H}_2 / \text{H}_2\text{S}$ 8:8 \rightarrow 1:1 (reduced)
 b) H_2 / S_8 8:1
 c) $\text{H}_2\text{S} / \text{S}_8$ 8:1

3) Answer the following questions for this equation: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

- a) What is the $\text{H}_2 / \text{H}_2\text{O}$ molar ratio? 2:2 \rightarrow 1:1 (reduced)
 b) Suppose you had 20 moles of H_2 on hand and plenty of O_2 , how many moles of H_2O could you make?

$$\frac{20 \text{ mole H}_2}{2 \text{ H}_2} \times \frac{2 \text{ H}_2\text{O}}{2 \text{ H}_2} = \boxed{20 \text{ mole H}_2\text{O}}$$

 c) What is the $\text{O}_2 / \text{H}_2\text{O}$ molar ratio?
 1:2
 d) Suppose you had 20 moles of O_2 and enough H_2 , how many moles of H_2O could you make?

$$\frac{20 \text{ mol O}_2}{1 \text{ O}_2} \times \frac{2 \text{ H}_2\text{O}}{2 \text{ H}_2} = \boxed{40 \text{ mol H}_2\text{O}}$$

4) Use this equation: $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$, for the following problems

- a) If you used 1 mole of N_2 , how many moles of NH_3 could be produced? $\boxed{2}$
 b) If 10 moles of NH_3 were produced, how many moles of N_2 would be required?

$$\frac{10 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{1 \text{ N}_2}{1 \text{ N}_2} = \boxed{5 \text{ mol N}_2}$$

 c) If 3.00 moles of H_2 were used, how many moles of NH_3 would be made?

$$\frac{3 \text{ mol H}_2}{3 \text{ H}_2} \times \frac{2 \text{ NH}_3}{2 \text{ NH}_3} = \boxed{2 \text{ mol NH}_3}$$

 d) If 0.600 moles of NH_3 were produced, how many moles of H_2 are required?

$$\frac{0.6 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{3 \text{ H}_2}{1 \text{ N}_2} = \boxed{0.9 \text{ mol H}_2}$$

Mole Ratio Packet Answers

NARAYAN CHANGDER

Mole Ratio Packet Answers:

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About the Authors Dr Caroline Desgranges earned a DEA in Physics in 2005 at the University Paul Sabatier Toulouse III France and a PhD in Chemical Engineering at the University of South Carolina USA in 2008 Dr Jerome Delhommelle earned his PhD in Chemistry at the University of Paris XI Orsay France in 2000 He is currently working as an Associate Professor in Chemistry at the University of North Dakota

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Paperbound Books in Print, 1992

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Medical Physiology Arthur M. Brown, Donald William Stubbs, 1983

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