C11 - 2.1 - Stoichiometry Moles <-> Moles HMK

$$N_2 + 3H_2 \longrightarrow 2NH_3$$

How many moles of N_2 *are required to react with* 12 *moles of* H_2?

How many moles of N_2 *are required to produce* 6 *moles of* NH_3?

How many moles of NH_3 *are produced if* 9 *moles of* N_2 *are reacted*?

How many moles of NH_3 *are produced if* 9 *moles of* H_2 *are reacted*?

How many molecules of N_2 *are required to react with* 12 *molecules of* H_2?

How many molecules of N_2 *are required to produce* 6 *molecules of* NH_3?

How many molecules of NH_3 *are produced if* 9 *molecules of* N_2 *are reacted*?

How many molecules of NH_3 *are produced if* 9 *molecules of* H_2 *are reacted*?

C11 - 2.1 - Stoichiometry Mass <-> Moles HMK

$$2H_2 + O_2 = 2H_2O$$

What is the mass H_2O *produced if* 4 *moles of* O_2 *is reacted*?

What is the mass H_2O *produced if* 4 *moles of* H_2 *is reacted*?

What mass of H_2 *is required to produce* 18 g *of* H_2O?

What mass of O_2 *is required to produce* 12 g *of* H_2O?