

Holy Moley Homework

1a) What is the gram formula mass of NaOH? (Don't forget the units!)

b) How many moles are there in 120 grams of NaOH?

c) What is the mass of 0.25 mole of NaOH?

2a) What is the gram formula mass of H_2SO_4 ? (Don't forget the units!)

b) How many moles are there in 122.5 grams of H_2SO_4 ?

c) What is the mass of 0.80 mole of H_2SO_4 ?

3a) How much does 0.55 mole of HNO_3 weigh?

b) How many moles are in 41.58 grams HNO_3 ?

4) Given: 1 mole of $\text{C}_6\text{H}_{12}\text{O}_6$ and 0.75 mole $\text{C}_{12}\text{H}_{22}\text{O}_{11}$

a) Which quantity has the greatest number of molecules? (show all work)

b) Which quantity has the greatest mass? (show all work)