Happy New Year!

Complete one problem on this page and pass it to the person on your left. Show all your calculations. Pay close attention to your significant figures.

Equation $4\,NH_3\ +\ 5\,O_2\ \rightarrow\ 4\,NO\ +\ 6\,H_2O$		
Question	*Calculation*	*Answer*
How many moles of NH_3 are needed to produce 3.0 moles of water?		
What mass of oxygen will react with 0.25 mol NH_3?		
How many moles of oxygen are required to produce 34.6 g of water?		
If 7.4 g of water is produced, what mass of nitrogen monoxide is also produced?		

1. Add up the digits in the ones column of each of your answers.
2. Write your sum in the box at the top of this sheet.
3. Check your sum with the teacher.

Happy New Year!

Complete one problem on this page and pass it to the person on your left. Show all your calculations. Pay close attention to your significant figures.

Equation $CH_4 + 4\ Cl_2 \rightarrow CCl_4 + 4\ HCl$		
Question	*Calculation*	*Answer*
How many moles of HCl would be produced when 2 moles of CH_4 react?		
What mass of Cl_2 is needed to react with 0.0046 mol of CH_4?		
If 177 g of Cl_2 react, how many moles of CCl_4 are produced?		
What mass of HCl is formed when 2.7 g of CCl_4 is also produced?		

1. Add up the digits in the ones column of each of your answers.
2. Write your sum in the box at the top of this sheet.
3. Check your sum with the teacher.

Happy New Year!

Complete one problem on this page and pass it to the person on your left. Show all your calculations. Pay close attention to your significant figures.

Equation $C_3H_8 + 5\,O_2 \rightarrow 3\,CO_2 + 4\,H_2O$		
Question	*Calculation*	*Answer*
If 30 moles of CO_2 are produced, how many moles of O_2 reacted?		
When 4.3 moles of oxygen react, what mass of water is produced?		
If 1081 g of CO_2 are produced, how many moles of C_3H_8 reacted?		
What mass of C_3H_8 is needed to react with 115 g of O_2?		

1. Add up the digits in the ones column of each of your answers.
2. Write your sum in the box at the top of this sheet.
3. Check your sum with the teacher.

Happy New Year!

The sum =

Complete one problem on this page and pass it to the person on your left. Show all your calculations. Pay close attention to your significant figures.

Equation	$2 \, Al + 3 \, MnCl_2 \rightarrow 2 \, AlCl_3 + 3 \, Mn$	
Question	*Calculation*	*Answer*
How many moles of $MnCl_2$ react to form 14 moles of $AlCl_3$?		
How many grams of aluminum are required to react with 1.0 mol $MnCl_2$?		
How many moles of manganese form when 1067 g of aluminum chloride is produced?		
What mass of $MnCl_2$ reacts to form 61.1 g of manganese?		

0 mass-mass

1. *Add up the digits in the ones column of each of your answers.*
2. *Write your sum in the box at the top of this sheet.*
3. *Check your sum with the teacher.*