

Name _____

Stoichiometry Worksheet

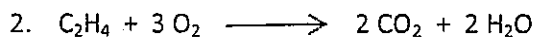
Show all work using dimensional analysis



a) How many moles of Sodium (Na) would be needed to react with 3.82 moles of Oxygen (O_2)?

b) How many moles of Na_2O can be produced from 13.5 moles Na?

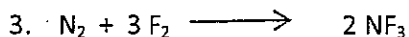
c) How many moles of O_2 are needed to produce 34.7g of Na_2O ?



a) When 0.624 moles of O_2 are reacted, how many moles of carbon dioxide are produced?

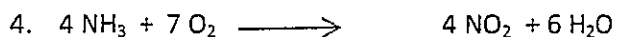
b) How many grams of C_2H_4 are needed to produce 3.7 moles of water?

c) How many grams of O_2 are needed to react with 2.56g of C_2H_4 ?



a) When 62.0 g of fluorine (F_2) are reacted, how many moles of NF_3 will be formed?

b) 3.54 g of nitrogen (N_2) will react with how many grams of fluorine (F_2)?



a) 13.8g of NH_3 would be able to produce how many moles of H_2O ?

b) How many grams of O_2 are needed to produce 15.5g of H_2O ?

Answers

1. a) 15.3 moles Na

b) 6.8 moles Na_2O

c) .3 moles O_2

2. a) .4 moles CO_2

b) ~~2.2 g~~ ~~2.2 g~~ 51.8 g C_2H_4

c) 8.8 g O_2

3. a) 1.1 mol NF_3

b) 14.4 g F_2

~~2~~

4. a) 1.2 mol H_2O

b) 32.1 g O_2