

Name:
Stoichiometry



a) How many **moles** of iron would be needed to react with 3.82 **moles** of oxygen?

$\frac{\quad}{\quad} = \quad \text{mol Fe}$

b) What **mass** of iron (III) oxide can be produced from 1.35 **moles** Fe?

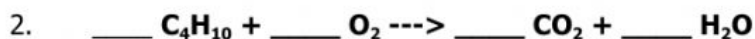
$\frac{\quad}{\quad} = \quad \text{g Fe}_2\text{O}_3$

c) How many **moles** of O_2 are needed to produce 347 **g** of Fe_2O_3 ?

$\frac{\quad}{\quad} = \quad \text{mol O}_2$

d) What **mass** of iron (III) oxide can be produced from 135 **g** Fe?

$\frac{\quad}{\quad} = \quad \text{g Fe}_2\text{O}_3$



a) When 6.24 **moles** of O_2 are reacted, how many **moles** of carbon dioxide are produced?

$\frac{\quad}{\quad} = \quad \text{mol CO}_2$

b) How many **grams** of C_4H_{10} would produce 88 **grams** of water?

$\frac{\quad}{\quad} = \quad \text{g C}_4\text{H}_{10}$

| | |
|-----------------------------|---------------------------|
| 6.24 mol O_2 | 88 g H_2O |
| 10 H_2O | 58.14 g |
| 13 O_2 | 44.01 g |
| 2 C_4H_{10} | 32.00 g |
| 8 CO_2 | 18.02 g |
| 1 mole | 6.022E23 |
| 1 mole | |