

Name:

Date:

Empirical Formulae - 2

GCSE CHEMISTRY

Mark

Grade

Materials

For this paper you must have:

- Ruler
- Pencil and Rubber
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown

Information

- The marks for the questions are shown in brackets

1. Find the empirical formula of each of the following substances.

a) N 82.4%, H 17.6%

Answer:

b) C 1.24 g H 0.26 g

Answer:

c) Al 52.9%, O 47.1%

Answer:

d) Na 0.219 g, H 0.0095 g, C 0.114 g, O 0.457 g

Answer:

e) H 3.1%, P 31.6%, O 65.3%

Answer:

f) Na 0.167 g, C 0.0435 g, O 0.174 g

Answer:

2. 0.150 g of copper reacts with oxygen form 0.188 g of copper oxide. Find the empirical formula of copper oxide.

Answer:

3. 1.00 g of phosphorus reacts with fluorine form 2.84 g of phosphorus fluoride. Find the empirical formula of phosphorus fluoride.

Answer: