Name:

Date:

Limiting Reactants

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. What mass of calcium hydroxide is formed when 10.0 g of calcium oxide reacts with 10.0 g of water?

$$CaO + H_2O \rightarrow Ca(OH)_2$$

Answer:

2. What mass of sodium fluoride is formed when 2.30 g of sodium reacts with 2.85 g of fluorine?

$$2Na + F_2 \rightarrow 2NaF$$

Answer:

3. What mass of copper is formed when 2.00 g of copper(II) oxide reacts with 1.00 g of hydrogen?

$$CuO + H_2 \rightarrow Cu + H_2O$$

Answer:

4. What mass of magnesium bromide is formed when 1.00 g of magnesium reacts with 5.00 g of bromine?

$$Mg + Br_2 \rightarrow MgBr_2$$

Answer:

5. What mass of aluminium chloride is formed when 13.5 g of aluminium reacts with 42.6 g of chlorine?

$$2Al + 3Cl_2 \rightarrow 2AlCl_3$$

Answer:

6. What mass of iron is formed when 8.00 g of iron(III) oxide reacts with 2.16 g of aluminium?

$$Fe_2O_3 + 2Al \rightarrow 2Fe + Al_2O_3$$

Answer: