1	Ammonia is used to make ammonium nitrate.
	Calculate the relative formula mass (Mr) of ammonium nitrate, NH <sub>4</sub> NO <sub>3</sub>
	Relative atomic masses (Ar): H = 1; N = 14; O = 16
	Relative formula mass =(2 marks)
1 (a) (i)	Potassium nitrate is a fertilser with the formula, KNO <sub>3</sub>
	The relative formula mass (Mr) of potassium nitrate is 101.
	Calculate the percentage by mass of potassium in potassium nitrate.
	Relative atomic masses (Ar): N = 14; O = 16; K = 39
	(2 marks)
1 (b)	A metal oxide has a relative formula mass (Mr) of 81. The formula of this metal oxide is XO.
	X is not the correct symbol for the metal.
	The relative atomic mass (Ar) of oxygen is 16. Calculate the relative atomic mass (Ar) of metal X
	Relative atomic mass (Ar) =(2 marks)
	Use your answer to part (a)(i) and the periodic table on the Data Sheet to name metal X.
	The name of metal X is
	(1 mark)
	Total (7 marks)

mv-GCSFscience com FSPOICHV2

2	Swimming pools are treated in order to killed microbes. One type of treatment is adding calcium hypochlorite tablets to the water.
	Calcium hypochlorite formula is CaCl <sub>2</sub> O <sub>2</sub>
2 (a) (i)	Calculate the relative formula mass $(M_r)$ of calcium hypochlorite.
	Relative atomic masses: O = 16; CI = 35.5; Ca = 40.
	Relative formula mass $(M_r)$ of calcium hypochlorite =
(2) (a) (ii)	Calculate the percentage by mass of chlorine in calcium hypochlorite.
	Percentage by mass of chlorine in calcium hypochlorite =
(2) (a) (iii)	Calculate the mass of chlorine in a 20 g tablet of calcium hypochlorite.
	Mass of chlorine = g (1 mark)
	Total (5 marks)
Log	gin or subscribe to my-GCSEscience.com to see the answers and commentary.

mv-GCSFscience com FSPO1CHV2