

Empirical Formula Homework

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31)

C

Mass

80.04

n

$$80.04 / 12.01 = 6.66$$

Ratio

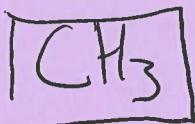
$$\frac{6.66}{6.66} = 1$$

H

19.96

$$19.96 / 1.01 = 19.76$$

$$\frac{19.76}{6.66} = 2.97(3)$$



32)

Mg

Mass

50.2

n

$$50.2 / 21.31 = 2.39$$

Ratio

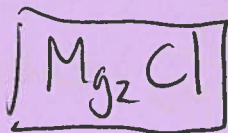
$$2.39 / 1.18 = 2$$

Cl

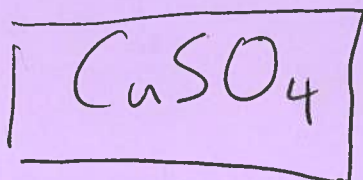
41.8

$$41.8 / 35.45 = 1.18$$

$$1.18 / 1.18 = 1$$



	Mass	Moles	Ratio
33) Cu	40	$\frac{40}{63.54} = 0.63$	$\frac{0.63}{0.63} = 1.02$
S	20	$\frac{20}{32.07} = 0.62$	$\frac{0.62}{0.62} = 1$
O	40	$\frac{40}{16} = 2.5$	$\frac{2.5}{0.62} = 4.03$



	Mass	Moles	Ratio
34) K	26.61	$\frac{26.61}{39.10} = 0.68$	$\frac{0.68}{0.68} = 1$ $\times 2 = 2$
Cr	35.38	$\frac{35.38}{51.996} = 0.68$	$\frac{0.68}{0.68} = 1$ $\times 2 = 2$
O	38.01	$\frac{38.01}{16} = 2.375$	$\frac{2.375}{0.68} = 3.5$ $\times 2 = 7$

