

## MARK SCHEMES – Chemistry Unit 3 homework

Q1 (a)  $2 \times 16 (= 32)$

1

$(M_r =) 44$

1

72.7 (%)

1

(b) 2 2

*allow multiples*

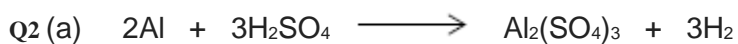
1

(c) 3.2 g of O<sub>2</sub> produced from 6.8 g of H<sub>2</sub>O<sub>2</sub>

1

32 (g)

1



*formulae correct*

1

*balancing correct*

1

(b)  $40 + 2(14 + (3 \times 16))$

1

= 164

*allow 164 with no working shown for 2 marks*

1

(c)  $(17.4 + 17.6 + 16.9) / 3$

1

= 17.3

*allow 17.3 with no working shown for 2 marks*

1

**[6]**

Q3 (a) 408 kg

1

(b) all points correct

*± ½ small square*

2

*allow 1 mark if 5 points correct*

best fit line

1

(c)  $\frac{1989 \times 100}{36}$

1

5525 dm<sup>3</sup>

1

(d) relative formula mass of  $\text{TiCl}_4$  is 190

1

25.26 %

1

Answer given to 3 significant figures = 25.3 %

1

*25.23% with or without working gains 3 marks*