

Revised August 2012



HONORS WORKSHEET 4f: ANSWERS



1.

- (a) A constant mass is a mass that does not change after heating, meaning that all of the water of crystallization has been driven off. It is important to remove all of the water to allow the moles to be accurately calculated.
- (b) 0.001 mols
- (c) 0.18 g
- (d) 0.01 mols
- (e) $x = 10$. Ratio of Na_2CO_3 moles to H_2O moles is 1:10

2.

- (a) $b = 2$
- (b) The "second heating". The mass should not increase.
- (c) Too large. The mass lost would be too large so the calculated moles of water would be too large.

3. $y = 7$