

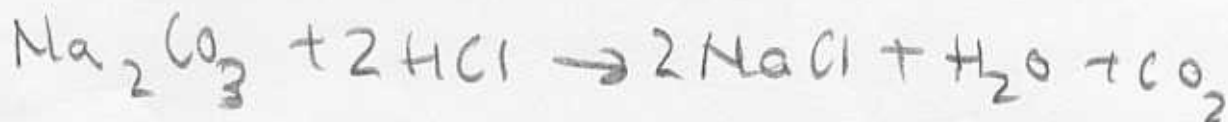
Name _____
Section _____
Last 4 digits of SS _____
Chemistry 109
Quiz 5 2/29/00

THERE IS NO NUMBER OF IMPLIED CORRECT ANSWERS TO QUESTIONS (ALL COULD BE RIGHT, ALL COULD BE WRONG). CLEARLY CIRCLE ANY CORRECT ANSWERS!

1. (2 pts) Which formula represents sodium bicarbonate?

- a) NaHCO_3 b) Na_2CO_3 c) NaHCO_4

2. (2 pts) Write a balanced reaction equation for the reaction of sodium carbonate, Na_2CO_3 , with hydrochloric acid to generate sodium chloride!



3. (2 pts) What weight percentage of chlorine does sodium chloride contain? (Atomic weights: sodium, 22.99; chlorine, 35.45).

$$60.7\%$$

4. (2 pts) What theoretical yield, in grams, of sodium chloride do you obtain if you react 3g sodium bicarbonate with excess hydrochloric acid?

$$2.09\text{g}$$

5. (2 pts) What is the correct formula for the cesium cation? (Hint: check the position of cesium on the periodic table!)

- a) Cs^+ b) Cs^{+2} c) Cs^{+3}

You will lose one point for each wrong assignment, or to a minimum of 0 points for a particular question.