

CEM 141

Calcium Carbonate Lab Sheet

All calculations must be shown on a separate piece of recycled paper, clearly labeled and understandable. They do not need to be re-written for your lab report, unless they are messy and confusing.

A. CHEAPEST RAW MATERIAL

Show calculations on recycled paper

Raw material you believe is the best value for calcium ion : _____

Raw material you believe is the best value for carbonate ion : _____

B. CALCULATE HOW MUCH OF EACH RAW MATERIAL NEEDED

Show calculations on recycled paper

	Ca ⁺² Raw Material	CO ₃ ⁻² raw material
Mass needed (g)		
Actual mass obtained (g)		
Cost of raw material (\$)		

C. DETERMINATION OF THEORETICAL YIELD

Using the actual mass obtained of each raw material, determining the limiting reagent and then calculate the theoretical yield. Show calculations on recycled paper.

Limiting reagent: _____ Theoretical yield: _____ g

D. PERCENT YIELD AND PROFIT

Show calculations *and data* on recycled paper

Actual Yield: _____ g Percent Yield: _____%

Profit: (sales – raw material cost) : \$ _____

How would you make this a more effective learning experience?