

# Chemistry

Explain All work & label

Compound  $\text{CaCO}_3 \cdot 7\text{H}_2\text{O}$

1. 900 Tons is put into a silo that is 20ft diameter and 70ft tall

A farmer is planting 100 acres and needs 700 lbs of lime  $[\text{Ca}]$  to the acre

How many tons will the farmer need from the silo to supply his needs of 700 lb Ca/acre

How many cubic ft of material will remain after his 100 acres has been supplied

It costs \$40/ton to spread what will be the total cost of material

2. Balance the following equation



If one has 20g  $\text{KMnO}_4$  and 15g  $\text{C}_3\text{H}_5(\text{OH})_3$  to mix

Which one limits the reaction

Name the two reactants