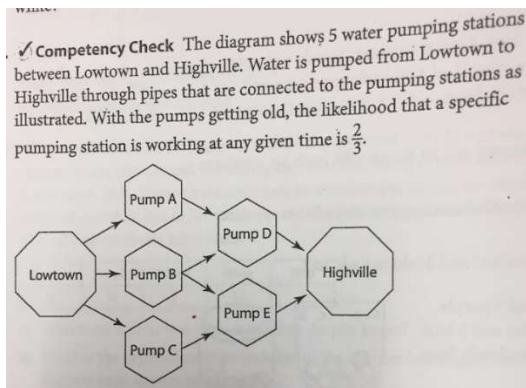


3. A survey shows that the probability of residents in Burnaby subscribing to the Burnaby NOW local newspaper is 25%, the Vancouver Sun is  $\frac{1}{6}$ , and to the Globe and Mail is  $\frac{1}{12}$ . What is the probability that they subscribe to the Vancouver Sun only? (3marks)

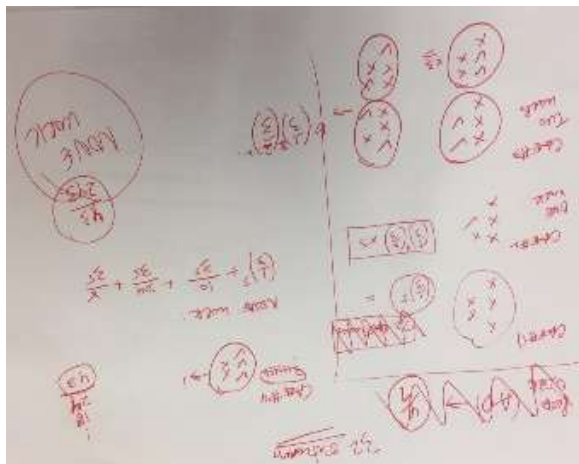
Challenging Problem from Cheong 5 Pump Stations:

Question: What is the probability that atleast one of the pathways to pump water from Lowtown to Highville works?



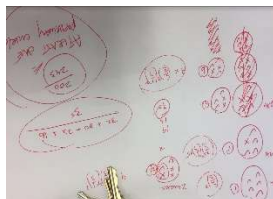
Note: Remember that it's the pump that matters, not the pathways. If a pump doesn't work, then the arrows pointing to that pump will not work for sure.

Solution:



There are 32 outcomes: List all the cases where it

wouldn't work:  $\frac{43}{243}$



These are the outcomes where atleast one pathway will work:  $\frac{200}{243}$