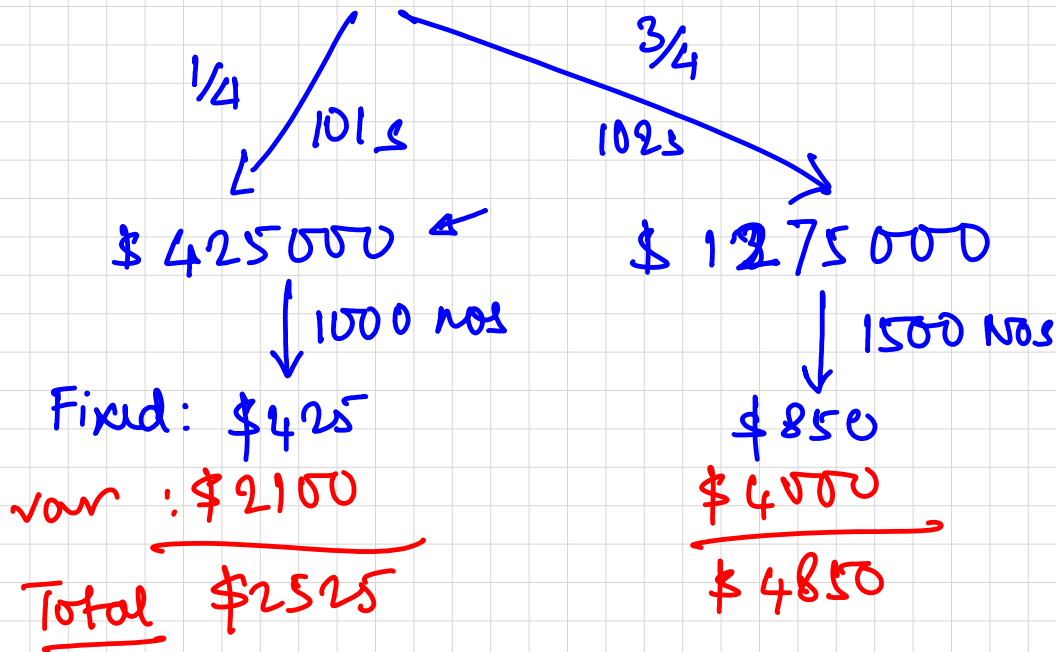
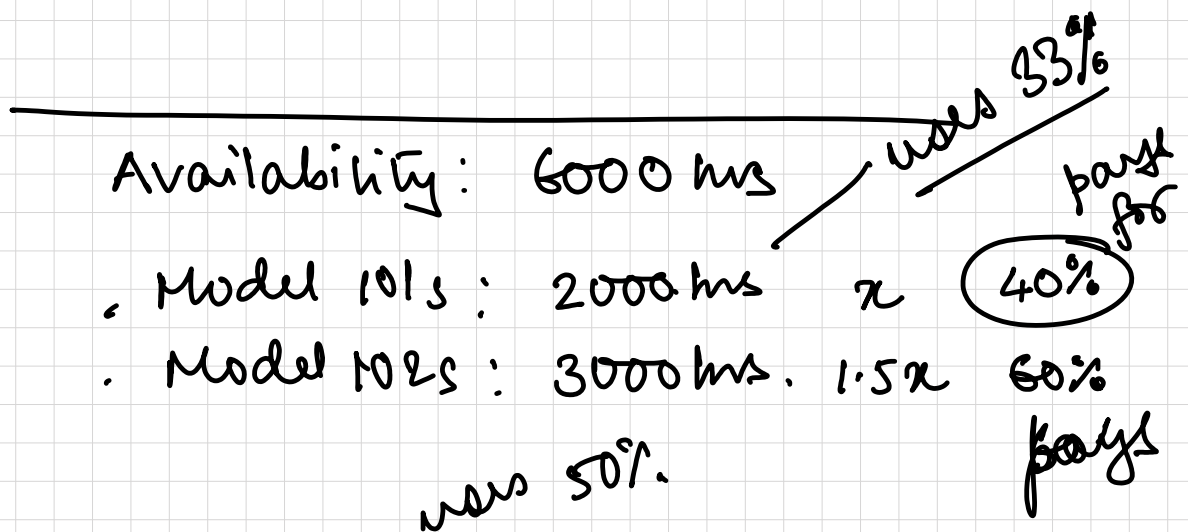
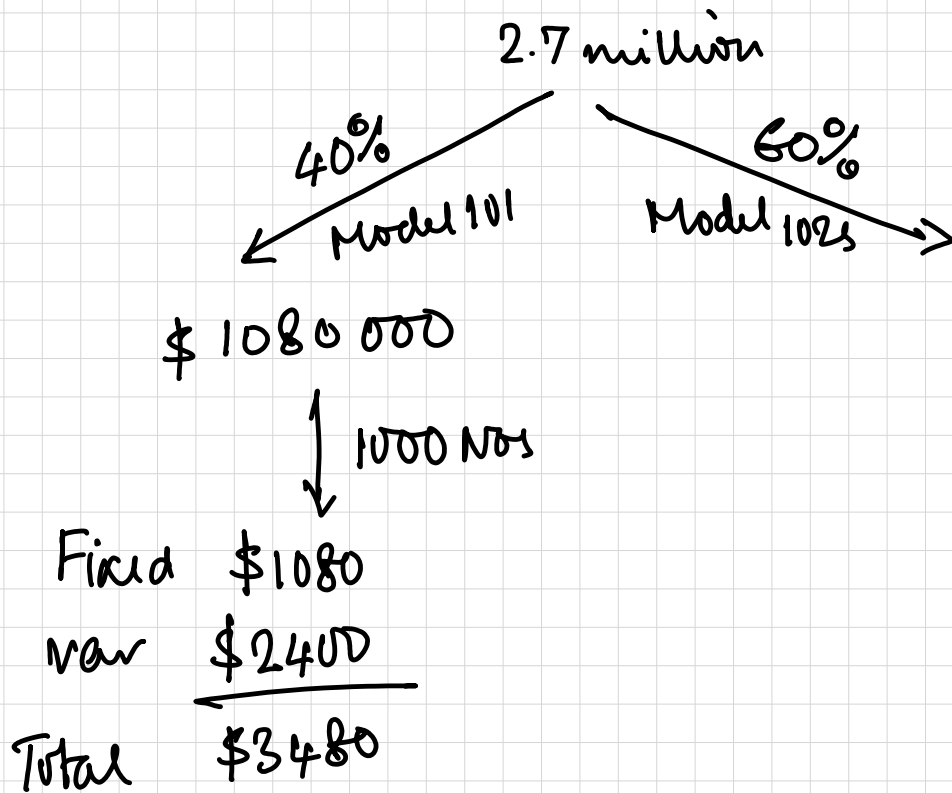


June 20, 2020

1.7 Million : Engine Assy



Model 101s → 1000 hrs 1/4
102s → 3000 hrs 3/4



Total Profits \equiv : (Revenue/unit) \times #units
 $-$ { fixed costs total
 $+$
 (variable costs/unit) \times #units
 $=$ $\frac{\text{CONTRIBUTION}}{\text{(Revenue/unit - var. cost/unit)}} \times \text{\#units}$
 $-$ total fixed costs
 $=$ contribution/unit \times #units
 $-$ total fixed costs.

find the number of model 101s
 and the number of model 102s
 such that
 $3000 \times \text{\#model 101s} + 5000 \times \text{\#model 102s}$
 is maximum.

