



March 2nd, 2018

Attention: Jia Hao Wu

We are a juice manufacturer that wants to improve how we import frozen concentrated orange juice (FCOJ) for making our products, particularly in the off-season when there is limited local supply in Australia. We currently ship into the ports of Brisbane, Melbourne and Adelaide. Each of these ports feed our local factories and we can predict the demands (barrels) and costs (\$/barrel) involved for each of the next eight quarters:

Quarter	Brisbane	Melbourne	Adelaide	Cost
Q1	1400	1900	2500	\$890
Q2	1850	2700	2200	\$972
Q3	2950	2550	850	\$978
Q4	2100	1450	2300	\$882
Q5	1750	2900	2850	\$865
Q6	2300	3400	2150	\$815
Q7	3150	2500	1200	\$826
Q8	2900	1450	2300	\$979

Each quarter we use a single ship for imports with a capacity of 10,000 barrels. We currently have 3200 barrels of frozen concentrated orange juice in Brisbane, 4000 barrels in Melbourne, and 3800 barrels in Adelaide. We can store any concentrate on hand at the end of a quarter for a cost of \$35 per barrel.

Please provide us with the optimal cost for delivery over the next eight quarters:

\$

Submit