

Exercise for fun

Suppose you own a fishing fleet consisting of a given number of boats, and can send your boats in whatever numbers you wish to either of two ends of an extremely wide lake, east or west. Under your current allocation of boats, the ones fishing at the east end return daily with 100 pounds of fish each, while those in the west return daily with 120 pounds each. The fish populations at each end of the lake are completely independent, and your current yields can be sustained indefinitely. **Should you alter your current allocation of boats?**

AP, TP and MP (lb/day) for Two Fishing Areas

Number of boats	East end			West end		
	AP	TP	MP	AP	TP	MP
0	0	0	100 100 100 100 100	0	0	130 110 90 70
1	100	100		130	130	
2	100	200		120	240	
3	100	300		110	330	
4	100	400		100	400	