



Figure 9.10 Weber's locational triangle with differing assumptions. (*a*) With one market, two raw material sources, and a finished product reflecting a 50% material weight loss, production could appropriately be located at S_1 , S_2 , or M since each length of haul is the same. In (*b*) the optimum production point, P, is seen to lie within the triangle, where total transport costs would be less than at corner locations. The exact location of P would depend on the weight-loss characteristics of the two material inputs if only transport charges were involved. P would, of course, be pulled toward the material whose weight is most reduced.

				Chart 1		osts for Raw Ma				
				R1	Mile 1	Mile 2	Mile 3	Mile 4	Mile 5	
Material Quantities and Transport Rates					30					
		A	T urn on a set	R2	35					
Location	Symbol	Amount Shipped	Transport Rate	м	70					
		Shipped	Nate		/0					
Raw Material #I	RI	6 tons	\$5 / ton-mile	Chart 2. Total Transport Cost for Each Proposed Plant Site Site R1 R2 M Total Cost						
									Total Obst	
Raw Material #2	R2	7 tons	\$5 / ton-mile	1						
				2						
				3						
Market	M	10 tons	\$7 / ton-mile	4						
17740-6700 844			Comment Stores (21)	5						
\cap	VV	V V V	V	6						
(R1	6	7 8 9	R2)	7						
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	XV	VV	L	8						
	A	15	11	9						
10										
		12	2	10						
	14	\times	•	11						
) is come	1	L'		12						
	(м)								
		\smile		13						
				14						
Example- #1 is 1 mile from										
-							 =			
RI, 5 miles from R2, and 4					What would be three other locations that					

miles from the Market

What would be three other locations that would be better than the twelve listed above?