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1). Wild West produces two types of cowboy hats.

A type 1 hat requires three times as much labor
time as a type 2. If the au available labor time is
dedicated to Type 2 alone, the company can produce a
total of 450 Type 2 hats a day. The market limits
for the two types are 100 and 300 hats per day for
Type 1 and Type 2, respectively. The profit is \$8 and \$5
per Type 1, 2. Determine the number of hats of each type that
would maximize Profit.

i. Build the mathernatical model of the problem.

ii. Solve the problem graphically.

1.) Type 1	Type 2	t: time	
3 L	t →	Total	etre: (450 t)
(150)	(450)		
100 \$8 → a tone	\$5 7 1500 \$5 7 15 tone		
450t - (3at + bt) = 0			
8a + 5b 7 max			
3a+5 7		(a)	
200			

