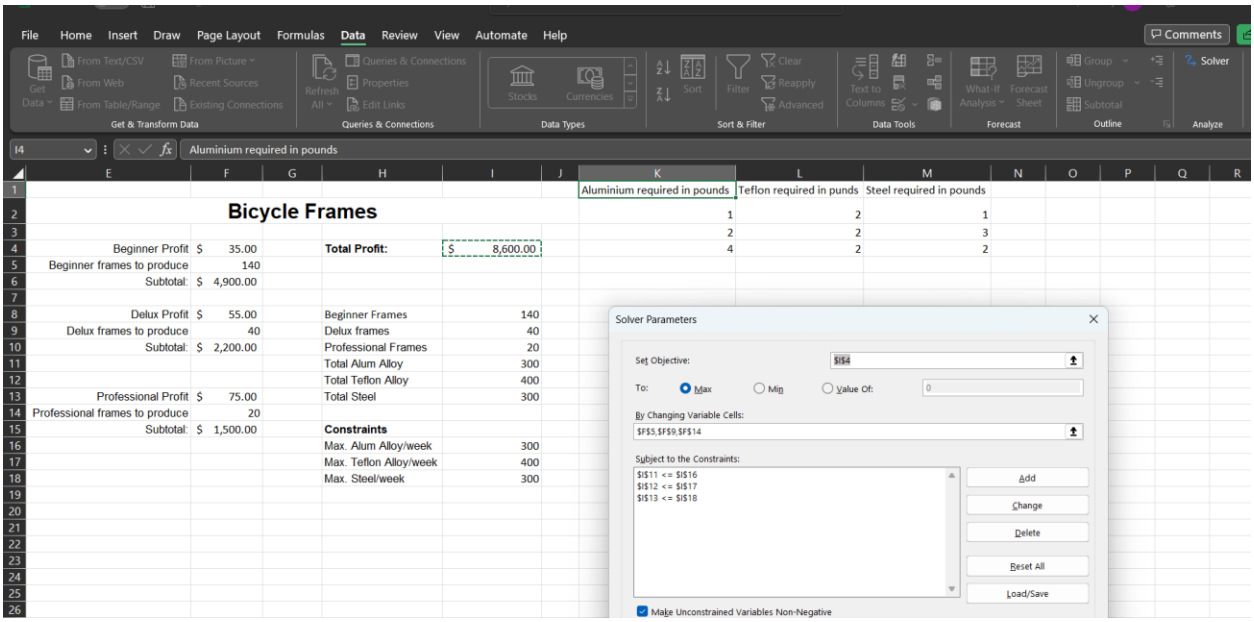
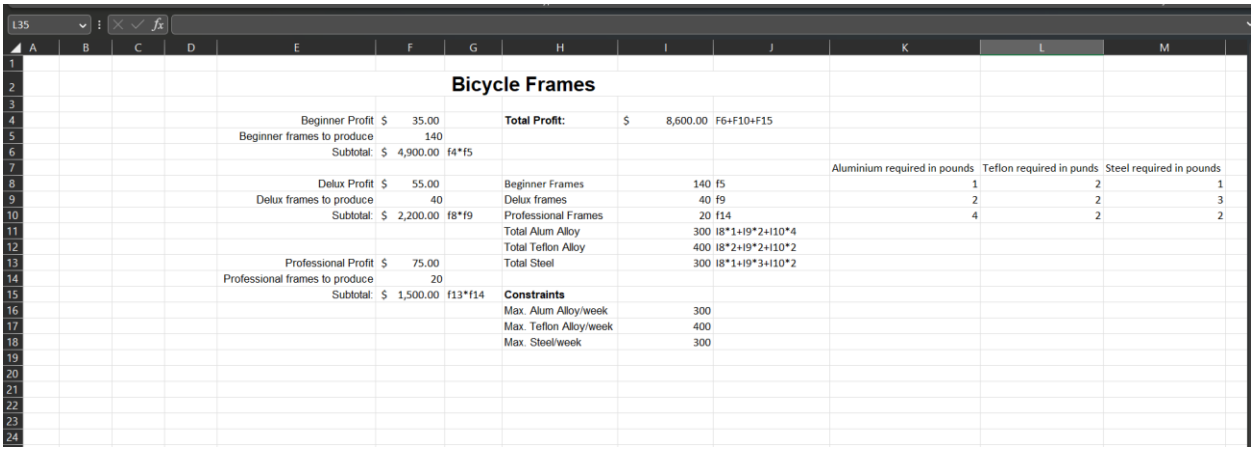
Question 3



Bicycle Frames

Beginner Profit	$ 35.00		**Total Profit:**	$ 8,600.00				
Beginner frames to produce	140							
Subtotal:	$ 4,900.00							
						Aluminium required in pounds	Teflon required in punds	Steel required in pounds
Delux Profit	$ 55.00		Beginner Frames	140		1	2	1
Delux frames to produce	40		Delux frames	40		2	2	3
Subtotal:	$ 2,200.00		Professional Frames	20		4	2	2
			Total Alum Alloy	300				
			Total Teflon Alloy	400				
Professional Profit	$ 75.00		Total Steel	300				
Professional frames to produce	20							
Subtotal:	$ 1,500.00		**Constraints**					
			Max. Alum Alloy/week	300				
			Max. Teflon Alloy/week	400				
			Max. Steel/week	300				

Solver Z function:



Bicycle Frames

Beginner Profit	$ 35.00		**Total Profit:**	$ 8,600.00	F6+F10+F15					
Beginner frames to produce	140									
Subtotal:	$ 4,900.00	f4*f5								
							Aluminium required in pounds	Teflon required in punds	Steel required in pounds	
Delux Profit	$ 55.00		Beginner Frames	140	f5		1	2	1	
Delux frames to produce	40		Delux frames	40	f9		2	2	3	
Subtotal:	$ 2,200.00	f8*f9	Professional Frames	20	f14		4	2	2	
			Total Alum Alloy	300	I8*1+I9*2+I10*4					
			Total Teflon Alloy	400	I8*2+I9*2+I10*2					
Professional Profit	$ 75.00		Total Steel	300	I8*1+I9*3+I10*2					
Professional frames to produce	20									
Subtotal:	$ 1,500.00	f13*f14	**Constraints**							
			Max. Alum Alloy/week	300						
			Max. Teflon Alloy/week	400						
			Max. Steel/week	300						