5s Overhead Time

First Come First Serve

READY									
P1	1-15								
P2		1-4				1-810			1-376
P3			1-4						
P4			2-37	1-37			1-37		
Proc	p1	p2	p3	p4	none	p2	p4	none	p2
Start	5	25	34	43	80	184	219	256	269
End	20	29	38	80	179	214	256	264	359
WAIT									
P1		420	420	420	420	420	420	420	420
P2			179	179	179		264	264	
P3				438	438	438	438	438	438
P4					180	180		356	356

READY									
P1			1-18			2-15	1-15		2-15
P2				1-15					
P3				2-810	1-810		2-376	1-376	
P4	1-37					1-37			1-37
Proc	p4	none	p1	p2	p3	p4	p1	p3	p4
Start	364	401	425	448	468	1283	1325	1345	1726
End	401	420	443	463	1278	1320	1340	1721	1763
WAIT									
P1	420	420		643	643			1440	
P2	434	434	434						
P3	438	438	438			1308			1766
P4		501	501	501	501		1420	1420	

READY									
P1	1-15		2-25	1-25			1-240		
P2									
P3		1-652							
P4			1-37			1-37			
Proc	p1	p3	p4	p1	none	p4	p1		
Start	1768	1788	2445	2487	2512	2587	2629		
End	1783	2440	2482	2512	2582	2624	2869		
WAIT									
P1		2183			2612	2612			
P2									
P3	1766								
P4	1863	1863		2582	2582				

cpu waste (no job or switch) = 99 + 8 + 19 + 70 + (5 * 21) = 196 + 105 = 301

p1 arrival = 0 end = 2869 ta = 2869

p2 arrival = 12 end = 463 ta = 451

p3 arrival = 27 end = 2440 ta = 2413

p4 arrival = 28 end = 2624 ta = 2596

5s Overhead Time

Shortest Job First

READY									
P1	1-15								
P2		1-4					1-30		1-90
P3			1-4						
P4			2-37	1-37				1-37	
Proc	p1	p2	p3	p4	none	p2	p4	none	p2
Start	5	25	34	43	80	184	219	256	269
End	20	29	38	80	179	214	256	264	359
WAIT									
P1		420	420	420	420	420	420	420	420
P2			179	179	179		264	264	
P3				438	438	438	438	438	438
P4					180	180		356	356

READY									
P1			1-18			1-15			1-15
P2				1-15					
P3				2-810	1-810			1-376	
P4	1-37					2-37	1-37		2-37
Proc	p4	none	p1	p2	p3	p1	p4	p3	p1
Start	364	401	425	448	468	1283	1303	1345	1726
End	401	420	443	463	1278	1298	1340	1721	1741
WAIT									
P1	420	420		643	643		1398	1398	
P2	434	434	434						
P3	438	438	438			1308	1308		1766
P4		501	501	501	501			1440	

READY									
P1			1-25			1-240			
P2									
P3		1-652							
P4	1-37		2-37	1-37			1-37		
Proc	p4	p3	p1	p4	none	p1	p4		
Start	1746	1788	2445	2475	2512	2575	2820		
End	1783	2440	2470	2512	2570	2815	2857		
WAIT									
P1	2141	2141		2570	2570				
P2									
P3	1766								
P4		1883			2612	2612			

cpu waste (no job or switch) = 99 + 8 + 19 + 58 + (5 * 21) = 184 + 105 = 289

p1 arrival = 0 end = 2815 ta = 2815

p2 arrival = 12 end = 463 ta = 451

p3 arrival = 27 end = 2440 ta = 2413

p4 arrival = 28 end = 2857 ta = 2829

5s Overhead Time

Shortest Remaining Time Next

READY									
P1	1-15	2-8	1-8	2-7	1-7				
P2		1-4						1-30	1-16
P3				1-4					
P4				3-37	2-37	1-37			2-37
Proc	p1	p2	p1	p3	p1	p4	none	p2	p2
Start	5	17	26	32	41	53	90	176	190
End	12	21	27	36	48	90	171	190	206
WAIT									
P1						448	448	448	448
P2			171	171	171	171	171		
P3					436	436	436	436	436
P4							190	190	

READY									
P1								1-18	
P2			1-90	2-87	1-87	1-4			
P3						2-810	1-810	3-807	2-807
P4	1-37			1-37				2-37	1-37
Proc	p4	none	p2	p4	p2	p2	p3	p1	p4
Start	211	248	303	311	353	436	445	453	476
End	248	298	306	348	436	440	448	471	513
WAIT									
P1	448	448	448	448	448	448	448		671
P2		298					515	515	515
P3	436	436	436	436	436				
P4	306	306	306		448	448	448		

READY									
P1						1-15			2-15
P2		1-15							
P3	1-807	2-807	1-807	2-737	1-737	2-726	1-726	2-667	3-667
P4				1-37				1-37	1-6
Proc	p3	p2	p3	p4	p3	p1	p3	p4	p4
Start	518	523	543	618	660	676	696	760	791
End	518	538	613	655	671	691	755	791	797
WAIT									
P1	671	671	671	671	671		791	791	
P2	515								
P3									
P4	613	613	613		755	755	755		

5s Overhead Time

READY									
P1	1-15				1-25		2-240	1-240	1-215
P2									
P3	2-667	1-667	2-592	1-592	2-319	1-319	1-224		2-376
P4			1-37						
Proc	p1	p3	p4	p3	p1	p3	p3	p1	p1
Start	802	822	902	944	1222	1252	1347	1576	1601
End	817	897	939	1217	1247	1347	1571	1601	1816
WAIT									
P1		1217	1217	1217		1347			
P2									
P3								1601	
P4	897	897							

READY									
P1									
P2									
P3	1-376		1-652						
P4									
Proc	p3	none	p3						
Start	1821	2197	2247						
End	2197	2242	2899						
WAIT									
P1									
P2									
P3		2242							
P4									

```
cpu waste (no job or switch) = 81 + 50 + 45 = 176
p1    arrival = 0       end = 1816  ta = 1816
p2    arrival = 12      end = 538   ta = 526
p3    arrival = 27      end = 2899  ta = 2872
p4    arrival = 28      end = 939   ta = 911
```

5s Overhead Time

Round Robin 100

READY									
P1	1-15								
P2		1-4				1-30			1-90
P3			1-4						
P4			2-37	1-37			1-37		
Proc	p1	p2	p3	p4	none	p2	p4	none	p2
Start	5	25	34	43	80	184	219	256	269
End	20	29	38	80	179	214	256	264	359
WAIT									
P1		420	420	420	420	420	420	420	420
P2			179	179	179		264	264	
P3				438	438	438	438	438	438
P4					180	180		356	356

READY									
P1			1-18					1-15	
P2				1-15					
P3				2-810	1-810	2-710	1-710	3-610	2-610
P4	1-37					1-37		2-37	1-37
Proc	p4	none	p1	p2	p3	p4	p3	p1	p4
Start	364	401	425	448	468	573	615	720	740
End	401	420	443	463	568	610	715	735	777
WAIT									
P1	420	420		643	643	643	643		835
P2	434	434	434						
P3	438	438	438						
P4		501	501	501	501		710		

READY									
P1		1-15							1-25
P2									
P3	1-610	3-510	2-510	1-510	2-410	1-410	1-310	1-210	2-110
P4		2-37	1-37		1-37				
Proc	p3	p1	p4	p3	p4	p3	p3	p3	p1
Start	782	887	907	949	1054	1096	1201	1306	1411
End	882	902	944	1049	1091	1196	1301	1406	1436
WAIT			1302	1302	1302	1302	1302	1302	
P1	835								
P2									
P3									
P4	877			1044					

5s Overhead Time

READY									
P1		1-240							
P2									
P3	1-110	2-10	1-10		1-376	1-276	1-176	1-76	
P4									
Proc	p3	p1	p3	none	p3	p3	p3	p3	none
Start	1441	1546	1651	1661	1696	1801	1906	2011	2087
End	1541	1646	1661	1691	1796	1901	2006	2087	2132
WAIT									
P1	1536								
P2									
P3				1691					2132
P4									

READY									
P1									
P2									
P3	1-652	1-552	1-452	1-352	1-252	1-152	1-52		
P4									
Proc	p3	p3	p3	p3	p3	p3	p3		
Start	2137	2242	2347	2452	2557	2662	2767		
End	2237	2342	2447	2552	2657	2762	2819		
WAIT									
P1									
P2									
P3									
P4									

```
cpu waste (no job or switch) = 99 + 8 + 19 + 30 + 45 = 201
p1    arrival = 0       end = 1646  ta = 1646
p2    arrival = 12      end = 463   ta = 451
p3    arrival = 27      end = 2819  ta = 2792
p4    arrival = 28      end = 1091  ta = 1063
```