Aufgabe 18.1

Analysis of a 2^2 3 Design

	Processor A	*Processor B*	*Factor A*
Workload I	41.16, 39.02,42.56	63.17, 59.25, 64.23	
Workload J	51.5, 52.5, 50.5	48.08, 48.98, 47.1	
Factor B			

2^2 3 Design

	Effect				Measured Response			Estimated Response	Errors		
Exp. No	***I***	***A***	***B***	***AB***	***yi1***	***yi2***	***yi3***	***Mean y***	***ei1***	***ei2***	***ei3***
1	1	-1	-1	1	41.16	39.02	42.56	40.91	0.25	-1.89	1.65
2	1	1	-1	-1	63.17	59.25	64.23	62.22	0.95	-2.97	2.01
3	1	-1	1	-1	51.50	52.50	50.50	51.50	0.00	1.00	-1.00
4	1	1	1	1	48.08	48.98	47.10	48.05	0.03	0.93	-0.95
	202.68	17.86	-3.58	-24.75				Total	***SSE=***	**22.12**	
Main Effects	**50.67**	**4.46**	**-0.89**	**-6.19**				Total/4			
Main pow 2=SST		19.93	0.80	38.29			=	**59.01**			
% Main Effects without Error		**33.77%**	**1.35%**	**64.88%**							
*Main pow 2 * 2^2 *3=SST*		239.15	9.59	459.42		22.12	=	**730.28**			
% Main Effects with Error		**32.75%**	**1.31%**	**62.91%**		**3.03%**					

Sorted with decreasing effect: AB A E B

-> Interactions explain 62.9% of Variation, the Effect of the Workload is not significant (less than error)