

Cycle types of transitive subgroups of the alternating group A_6

Cycle type:	1	(2,2)	(3,3)	(4,2)	3	5
A_4	1	3	8			
S_4	1	9	8	6		
F_{36}	1	9	4	18	4	
A_5	1	15	20			24
A_6	1	45	40	90	40	144

(Source: GAP calculations, counting arguments (for A_6))