

Table 1: Census of planar discrete group actions of genus $g = 6$

Ref	Signature	SMG id	Structure	#epi	#strong	#equiv
O6.5	$(0; \{2^4 4\})$	$\langle 2, 1 \rangle$	\mathbb{Z}_2	1	1	1
O6.8	$(0; \{3^8\})$	$\langle 3, 1 \rangle$	\mathbb{Z}_3	86	43	2
O6.11	$(0; \{2^9\})$	$\langle 4, 2 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2$	4920	820	3
O6.12	$(0; \{2^6, 4^2\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	2	1	1
O6.13	$(0; \{2^3, 4^4\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	8	4	1
O6.14	$(0; \{4^6\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	32	16	2
O6.16	$(0; \{5^5\})$	$\langle 5, 1 \rangle$	\mathbb{Z}_5	204	51	3
O6.19	$(0; \{2^6, 3\})$	$\langle 6, 1 \rangle$	$\text{Sym}(3)$	486	81	1
O6.20	$(0; \{2^2, 3^4\})$	$\langle 6, 1 \rangle$	$\text{Sym}(3)$	48	8	1
O6.21	$(0; \{2^2, 3^4\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	6	3	1
O6.22	$(0; \{2^3, 3^2, 6\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O6.23	$(0; \{2^4, 6^2\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O6.24	$(0; \{3^3, 6^2\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	10	5	2
O6.25	$(0; \{2, 3, 6^3\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	6	3	1
O6.26	$(0; \{7, 7, 7, 7\})$	$\langle 7, 1 \rangle$	\mathbb{Z}_7	186	31	4
O6.27	$(0; \{2^5, 4\})$	$\langle 8, 3 \rangle$	D_8	720	90	2
O6.28	$(0; \{2^2, 4^3\})$	$\langle 8, 3 \rangle$	D_8	32	4	1
O6.29	$(0; \{2^2, 4^3\})$	$\langle 8, 4 \rangle$	Q_8	24	1	1
O6.30	$(0; \{2^3, 8^2\})$	$\langle 8, 1 \rangle$	\mathbb{Z}_8	4	1	1
O6.31	$(0; \{4, 4, 8, 8\})$	$\langle 8, 1 \rangle$	\mathbb{Z}_8	16	4	2
O6.32	$(0; \{3, 3, 9, 9\})$	$\langle 9, 1 \rangle$	\mathbb{Z}_9	24	4	2
O6.35	$(0; \{2^6\})$	$\langle 10, 1 \rangle$	D_{10}	3120	156	1
O6.36	$(0; \{2, 5, 5, 10\})$	$\langle 10, 2 \rangle$	\mathbb{Z}_{10}	12	3	2
O6.37	$(0; \{2^3, 3^2\})$	$\langle 12, 3 \rangle$	$\text{Alt}(4)$	216	9	1
O6.38	$(0; \{2^3, 3^2\})$	$\langle 12, 4 \rangle$	D_{12}	72	6	1
O6.39	$(0; \{2^3, 3^2\})$	$\langle 12, 5 \rangle$	$\mathbb{Z}_6 \times \mathbb{Z}_2$	12	1	1
O6.40	$(0; \{3, 3, 4, 4\})$	$\langle 12, 1 \rangle$	$\mathbb{Z}_3 : \mathbb{Z}_4$	24	2	1
O6.41	$(0; \{3, 3, 4, 4\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O6.42	$(0; \{2^4, 6\})$	$\langle 12, 4 \rangle$	D_{12}	504	42	2
O6.43	$(0; \{2, 4, 4, 6\})$	$\langle 12, 1 \rangle$	$\mathbb{Z}_3 : \mathbb{Z}_4$	12	1	1
O6.44	$(0; \{2, 3, 6, 6\})$	$\langle 12, 5 \rangle$	$\mathbb{Z}_6 \times \mathbb{Z}_2$	12	1	1
O6.45	$(0; \{2, 3, 4, 12\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O6.46	$(0; \{2, 2, 12, 12\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O6.47	$(0; \{13, 13, 13\})$	$\langle 13, 1 \rangle$	\mathbb{Z}_{13}	132	11	3
O6.48	$(0; \{2, 2, 7, 7\})$	$\langle 14, 1 \rangle$	D_{14}	252	6	2
O6.49	$(0; \{2, 2, 7, 7\})$	$\langle 14, 2 \rangle$	\mathbb{Z}_{14}	6	1	1
O6.50	$(0; \{7, 14, 14\})$	$\langle 14, 2 \rangle$	\mathbb{Z}_{14}	30	5	3
O6.51	$(0; \{5, 15, 15\})$	$\langle 15, 1 \rangle$	\mathbb{Z}_{15}	24	3	2
O6.52	$(0; \{2, 2, 4, 8\})$	$\langle 16, 7 \rangle$	D_{16}	64	2	1
O6.53	$(0; \{2, 2, 4, 8\})$	$\langle 16, 8 \rangle$	$QD16$	32	2	1
O6.54	$(0; \{4, 16, 16\})$	$\langle 16, 1 \rangle$	\mathbb{Z}_{16}	16	2	1

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Ref	Signature	SMG id	Structure	#epi	#strong	#equiv
O6.55	$(0; \{2, 2, 3, 9\})$	$\langle 18, 1 \rangle$	D_{18}	108	2	1
O6.56	$(0; \{3, 18, 18\})$	$\langle 18, 2 \rangle$	\mathbb{Z}_{18}	12	2	1
O6.57	$(0; \{2^5\})$	$\langle 20, 4 \rangle$	D_{20}	4800	120	1
O6.58	$(0; \{2, 2, 4, 4\})$	$\langle 20, 3 \rangle$	$\mathbb{Z}_5 : \mathbb{Z}_4$	240	12	1
O6.59	$(0; \{4, 5, 20\})$	$\langle 20, 2 \rangle$	\mathbb{Z}_{20}	8	1	1
O6.60	$(0; \{3, 7, 21\})$	$\langle 21, 2 \rangle$	\mathbb{Z}_{21}	12	1	1
O6.61	$(0; \{2, 2, 3, 4\})$	$\langle 24, 6 \rangle$	D_{24}	48	1	1
O6.62	$(0; \{2, 2, 3, 4\})$	$\langle 24, 8 \rangle$	$(\mathbb{Z}_6 \times \mathbb{Z}_2) : \mathbb{Z}_2$	48	2	1
O6.63	$(0; \{2, 2, 3, 4\})$	$\langle 24, 12 \rangle$	$\text{Sym}(4)$	144	6	1
O6.64	$(0; \{4, 6, 6\})$	$\langle 24, 3 \rangle$	$\text{SL}(2, 3)$	24	1	1
O6.65	$(0; \{4, 6, 6\})$	$\langle 24, 10 \rangle$	$\mathbb{Z}_3 \times D_8$	16	1	1
O6.66	$(0; \{3, 8, 8\})$	$\langle 24, 1 \rangle$	$\mathbb{Z}_3 : \mathbb{Z}_8$	24	1	1
O6.67	$(0; \{2, 2, 2, 12\})$	$\langle 24, 6 \rangle$	D_{24}	144	3	1
O6.68	$(0; \{4, 4, 12\})$	$\langle 24, 4 \rangle$	$\mathbb{Z}_3 : Q_8$	48	1	1
O6.69	$(0; \{2, 24, 24\})$	$\langle 24, 2 \rangle$	\mathbb{Z}_{24}	8	1	1
O6.70	$(0; \{5, 5, 5\})$	$\langle 25, 2 \rangle$	$\mathbb{Z}_5 \times \mathbb{Z}_5$	480	1	1
O6.71	$(0; \{2, 13, 26\})$	$\langle 26, 2 \rangle$	\mathbb{Z}_{26}	12	1	1
O6.72	$(0; \{2, 2, 2, 7\})$	$\langle 28, 3 \rangle$	D_{28}	252	3	1
O6.73	$(0; \{4, 4, 7\})$	$\langle 28, 1 \rangle$	$\mathbb{Z}_7 : \mathbb{Z}_4$	84	1	1
O6.74	$(0; \{2, 14, 14\})$	$\langle 28, 4 \rangle$	$\mathbb{Z}_{14} \times \mathbb{Z}_2$	36	1	1
O6.75	$(0; \{2, 10, 15\})$	$\langle 30, 1 \rangle$	$\mathbb{Z}_5 \times \text{Sym}(3)$	24	1	1
O6.76	$(0; \{2, 9, 9\})$	$\langle 36, 3 \rangle$	$\mathbb{Z}_2^2 : \mathbb{Z}_9$	72	1	1
O6.77	$(0; \{3, 3, 13\})$	$\langle 39, 1 \rangle$	$\mathbb{Z}_{13} : \mathbb{Z}_3$	312	2	1
O6.78	$(0; \{2, 6, 8\})$	$\langle 48, 15 \rangle$	$(\mathbb{Z}_3 \times D_8) : \mathbb{Z}_2$	96	1	1
O6.79	$(0; \{2, 6, 8\})$	$\langle 48, 29 \rangle$	$\text{GL}(2, 3)$	48	1	1
O6.80	$(0; \{2, 4, 24\})$	$\langle 48, 6 \rangle$	$\mathbb{Z}_{24} : \mathbb{Z}_2$	96	1	1
O6.81	$(0; \{2, 5, 10\})$	$\langle 50, 3 \rangle$	$\mathbb{Z}_5 \times D_{10}$	80	1	1
O6.82	$(0; \{2, 4, 14\})$	$\langle 56, 7 \rangle$	$(\mathbb{Z}_{14} \times \mathbb{Z}_2) : \mathbb{Z}_2$	168	1	1
O6.83	$(0; \{2, 2, 2, 3\})$	$\langle 60, 5 \rangle$	$\text{Alt}(5)$	1080	9	1
O6.84	$(0; \{2, 4, 9\})$	$\langle 72, 15 \rangle$	$(\mathbb{Z}_2^2 : \mathbb{Z}_9) : \mathbb{Z}_2$	216	1	1
O6.85	$(0; \{3, 3, 5\})$	$\langle 75, 2 \rangle$	$\mathbb{Z}_5^2 : \mathbb{Z}_3$	1200	1	1
O6.86	$(0; \{2, 4, 6\})$	$\langle 120, 34 \rangle$	$\text{Sym}(5)$	120	1	1
O6.87	$(0; \{2, 3, 10\})$	$\langle 150, 5 \rangle$	$(\mathbb{Z}_5^2 : \mathbb{Z}_3) : \mathbb{Z}_2$	600	1	1