

Table 1: Census of planar discrete group actions of genus $g = 3$

Ref	Signature	SMG id	Structure	#epi	#strong	#equiv
O3.4	$(0; \{2^8\})$	$\langle 2, 1 \rangle$	\mathbb{Z}_2	1	1	1
O3.6	$(0; \{3^5\})$	$\langle 3, 1 \rangle$	\mathbb{Z}_3	10	5	1
O3.9	$(0; \{2^6\})$	$\langle 4, 2 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2$	180	30	2
O3.10	$(0; \{2^3, 4^2\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	2	1	1
O3.11	$(0; \{4, 4, 4, 4\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	8	4	2
O3.13	$(0; \{2^4, 3\})$	$\langle 6, 1 \rangle$	$\text{Sym}(3)$	54	9	1
O3.14	$(0; \{2, 3, 3, 6\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O3.15	$(0; \{2, 2, 6, 6\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O3.16	$(0; \{7, 7, 7\})$	$\langle 7, 1 \rangle$	\mathbb{Z}_7	30	5	2
O3.19	$(0; \{2^5\})$	$\langle 8, 3 \rangle$	D_8	240	30	1
O3.20	$(0; \{2^5\})$	$\langle 8, 5 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2 \times \mathbb{Z}_2$	1680	10	1
O3.21	$(0; \{2, 2, 4, 4\})$	$\langle 8, 2 \rangle$	$\mathbb{Z}_4 \times \mathbb{Z}_2$	32	4	3
O3.22	$(0; \{2, 2, 4, 4\})$	$\langle 8, 3 \rangle$	D_8	16	2	1
O3.23	$(0; \{4, 8, 8\})$	$\langle 8, 1 \rangle$	\mathbb{Z}_8	8	2	2
O3.24	$(0; \{3, 9, 9\})$	$\langle 9, 1 \rangle$	\mathbb{Z}_9	12	2	1
O3.25	$(0; \{2, 2, 3, 3\})$	$\langle 12, 3 \rangle$	$\text{Alt}(4)$	72	3	1
O3.26	$(0; \{2, 2, 2, 6\})$	$\langle 12, 4 \rangle$	D_{12}	36	3	1
O3.27	$(0; \{4, 4, 6\})$	$\langle 12, 1 \rangle$	$\mathbb{Z}_3 : \mathbb{Z}_4$	12	1	1
O3.28	$(0; \{3, 4, 12\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O3.29	$(0; \{2, 12, 12\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O3.30	$(0; \{2, 7, 14\})$	$\langle 14, 2 \rangle$	\mathbb{Z}_{14}	6	1	1
O3.31	$(0; \{2, 2, 2, 4\})$	$\langle 16, 11 \rangle$	$\mathbb{Z}_2 \times D_8$	192	3	1
O3.32	$(0; \{2, 2, 2, 4\})$	$\langle 16, 13 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_2$	48	1	1
O3.33	$(0; \{4, 4, 4\})$	$\langle 16, 2 \rangle$	$\mathbb{Z}_4 \times \mathbb{Z}_4$	96	1	1
O3.34	$(0; \{4, 4, 4\})$	$\langle 16, 4 \rangle$	$\mathbb{Z}_4 : \mathbb{Z}_4$	96	3	1
O3.35	$(0; \{2, 8, 8\})$	$\langle 16, 5 \rangle$	$\mathbb{Z}_8 \times \mathbb{Z}_2$	16	1	1
O3.36	$(0; \{2, 8, 8\})$	$\langle 16, 6 \rangle$	$\mathbb{Z}_8 : \mathbb{Z}_2$	16	1	1
O3.37	$(0; \{3, 3, 7\})$	$\langle 21, 1 \rangle$	$\mathbb{Z}_7 : \mathbb{Z}_3$	84	2	1
O3.38	$(0; \{2, 2, 2, 3\})$	$\langle 24, 12 \rangle$	$\text{Sym}(4)$	216	9	1
O3.39	$(0; \{3, 4, 4\})$	$\langle 24, 12 \rangle$	$\text{Sym}(4)$	24	1	1
O3.40	$(0; \{3, 3, 6\})$	$\langle 24, 3 \rangle$	$\text{SL}(2, 3)$	24	1	1
O3.41	$(0; \{2, 6, 6\})$	$\langle 24, 13 \rangle$	$\mathbb{Z}_2 \times \text{Alt}(4)$	24	1	1
O3.42	$(0; \{2, 4, 12\})$	$\langle 24, 5 \rangle$	$\mathbb{Z}_4 \times \text{Sym}(3)$	24	1	1
O3.43	$(0; \{2, 4, 8\})$	$\langle 32, 9 \rangle$	$(\mathbb{Z}_8 \times \mathbb{Z}_2) : \mathbb{Z}_2$	64	1	1
O3.44	$(0; \{2, 4, 8\})$	$\langle 32, 11 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_4) : \mathbb{Z}_2$	32	1	1
O3.45	$(0; \{3, 3, 4\})$	$\langle 48, 3 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_4) : \mathbb{Z}_3$	384	1	1
O3.46	$(0; \{2, 4, 6\})$	$\langle 48, 48 \rangle$	$\mathbb{Z}_2 \times \text{Sym}(4)$	48	1	1
O3.47	$(0; \{2, 3, 12\})$	$\langle 48, 33 \rangle$	$\text{SL}(2, 3) : \mathbb{Z}_2$	48	1	1
O3.48	$(0; \{2, 3, 8\})$	$\langle 96, 64 \rangle$	$((\mathbb{Z}_4 \times \mathbb{Z}_4) : \mathbb{Z}_3) : \mathbb{Z}_2$	192	1	1
O3.49	$(0; \{2, 3, 7\})$	$\langle 168, 42 \rangle$	$\text{PSL}(3, 2)$	336	1	1