

Table 1: Census of planar discrete group actions of genus $g = 5$

Ref	Signature	SMG id	Structure	#epi	#strong	#equiv
O5.5	$(0; \{2^1 2\})$	$\langle 2, 1 \rangle$	\mathbb{Z}_2	1	1	1
O5.7	$(0; \{3^7\})$	$\langle 3, 1 \rangle$	\mathbb{Z}_3	42	21	1
O5.13	$(0; \{2^8\})$	$\langle 4, 2 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2$	1638	273	3
O5.14	$(0; \{2^5, 4^2\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	2	1	1
O5.15	$(0; \{2^2, 4^4\})$	$\langle 4, 1 \rangle$	\mathbb{Z}_4	8	4	2
O5.19	$(0; \{2^4, 3^2\})$	$\langle 6, 1 \rangle$	$\text{Sym}(3)$	108	18	1
O5.20	$(0; \{2^4, 3^2\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O5.21	$(0; \{2, 3^3, 6\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	6	3	1
O5.22	$(0; \{2^2, 3, 6^2\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	2	1	1
O5.23	$(0; \{6, 6, 6, 6\})$	$\langle 6, 2 \rangle$	\mathbb{Z}_6	6	3	1
O5.28	$(0; \{2^6\})$	$\langle 8, 3 \rangle$	D_8	1680	210	2
O5.29	$(0; \{2^6\})$	$\langle 8, 5 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2 \times \mathbb{Z}_2$	13440	80	3
O5.30	$(0; \{2^3, 4^2\})$	$\langle 8, 2 \rangle$	$\mathbb{Z}_4 \times \mathbb{Z}_2$	104	13	5
O5.31	$(0; \{2^3, 4^2\})$	$\langle 8, 3 \rangle$	D_8	48	6	1
O5.32	$(0; \{4, 4, 4, 4\})$	$\langle 8, 2 \rangle$	$\mathbb{Z}_4 \times \mathbb{Z}_2$	48	6	2
O5.33	$(0; \{4, 4, 4, 4\})$	$\langle 8, 4 \rangle$	Q_8	144	6	1
O5.34	$(0; \{2, 4, 8, 8\})$	$\langle 8, 1 \rangle$	\mathbb{Z}_8	8	2	2
O5.36	$(0; \{2^4, 5\})$	$\langle 10, 1 \rangle$	D_{10}	500	25	1
O5.37	$(0; \{2, 2, 10, 10\})$	$\langle 10, 2 \rangle$	\mathbb{Z}_{10}	4	1	1
O5.38	$(0; \{11, 11, 11\})$	$\langle 11, 1 \rangle$	\mathbb{Z}_{11}	90	9	2
O5.41	$(0; \{2^4, 3\})$	$\langle 12, 4 \rangle$	D_{12}	396	33	2
O5.42	$(0; \{3, 3, 3, 3\})$	$\langle 12, 3 \rangle$	$\text{Alt}(4)$	360	15	2
O5.43	$(0; \{2, 3, 4, 4\})$	$\langle 12, 1 \rangle$	$\mathbb{Z}_3 : \mathbb{Z}_4$	12	1	1
O5.44	$(0; \{2, 2, 6, 6\})$	$\langle 12, 4 \rangle$	D_{12}	24	2	1
O5.45	$(0; \{2, 2, 6, 6\})$	$\langle 12, 5 \rangle$	$\mathbb{Z}_6 \times \mathbb{Z}_2$	36	3	2
O5.46	$(0; \{6, 12, 12\})$	$\langle 12, 2 \rangle$	\mathbb{Z}_{12}	4	1	1
O5.47	$(0; \{3, 15, 15\})$	$\langle 15, 1 \rangle$	\mathbb{Z}_{15}	8	1	1
O5.51	$(0; \{2^5\})$	$\langle 16, 7 \rangle$	D_{16}	1920	60	1
O5.52	$(0; \{2^5\})$	$\langle 16, 11 \rangle$	$\mathbb{Z}_2 \times D_8$	4800	75	2
O5.53	$(0; \{2^5\})$	$\langle 16, 14 \rangle$	\mathbb{Z}_2^4	20160	1	1
O5.54	$(0; \{2, 2, 4, 4\})$	$\langle 16, 3 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_2$	320	10	4
O5.55	$(0; \{2, 2, 4, 4\})$	$\langle 16, 8 \rangle$	QD_{16}	64	4	1
O5.56	$(0; \{2, 2, 4, 4\})$	$\langle 16, 10 \rangle$	$\mathbb{Z}_4 \times \mathbb{Z}_2 \times \mathbb{Z}_2$	192	1	1
O5.57	$(0; \{2, 2, 4, 4\})$	$\langle 16, 11 \rangle$	$\mathbb{Z}_2 \times D_8$	64	1	1
O5.58	$(0; \{2, 2, 4, 4\})$	$\langle 16, 13 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_2$	96	2	1
O5.59	$(0; \{4, 8, 8\})$	$\langle 16, 5 \rangle$	$\mathbb{Z}_8 \times \mathbb{Z}_2$	16	1	1
O5.60	$(0; \{4, 8, 8\})$	$\langle 16, 6 \rangle$	$\mathbb{Z}_8 : \mathbb{Z}_2$	16	1	1
O5.61	$(0; \{2, 2, 2, 10\})$	$\langle 20, 4 \rangle$	D_{20}	120	3	1
O5.62	$(0; \{4, 4, 10\})$	$\langle 20, 1 \rangle$	$\mathbb{Z}_5 : \mathbb{Z}_4$	40	1	1
O5.63	$(0; \{2, 20, 20\})$	$\langle 20, 2 \rangle$	\mathbb{Z}_{20}	8	1	1
O5.64	$(0; \{2, 11, 22\})$	$\langle 22, 2 \rangle$	\mathbb{Z}_{22}	10	1	1

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Ref	Signature	SMG id	Structure	#epi	#strong	#equiv
O5.65	$(0; \{2, 2, 3, 3\})$	$\langle 24, 12 \rangle$	$\text{Sym}(4)$	144	6	1
O5.66	$(0; \{2, 2, 3, 3\})$	$\langle 24, 13 \rangle$	$\mathbb{Z}_2 \times \text{Alt}(4)$	120	5	2
O5.67	$(0; \{2, 2, 2, 6\})$	$\langle 24, 8 \rangle$	$(\mathbb{Z}_6 \times \mathbb{Z}_2) : \mathbb{Z}_2$	144	6	1
O5.68	$(0; \{2, 2, 2, 6\})$	$\langle 24, 14 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2 \times \text{Sym}(3)$	432	3	1
O5.69	$(0; \{4, 4, 6\})$	$\langle 24, 7 \rangle$	$\mathbb{Z}_2 \times (\mathbb{Z}_3 : \mathbb{Z}_4)$	48	1	1
O5.70	$(0; \{3, 6, 6\})$	$\langle 24, 13 \rangle$	$\mathbb{Z}_2 \times \text{Alt}(4)$	24	1	1
O5.71	$(0; \{2, 12, 12\})$	$\langle 24, 9 \rangle$	$\mathbb{Z}_{12} \times \mathbb{Z}_2$	16	1	1
O5.72	$(0; \{2, 6, 15\})$	$\langle 30, 2 \rangle$	$\mathbb{Z}_3 \times \text{D}_{10}$	40	1	1
O5.73	$(0; \{2, 2, 2, 4\})$	$\langle 32, 27 \rangle$	$\mathbb{Z}_2^4 : \mathbb{Z}_2$	1152	3	1
O5.74	$(0; \{2, 2, 2, 4\})$	$\langle 32, 28 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_2 \times \mathbb{Z}_2) : \mathbb{Z}_2$	384	3	1
O5.75	$(0; \{2, 2, 2, 4\})$	$\langle 32, 43 \rangle$	$(\mathbb{Z}_2 \times \text{D}_8) : \mathbb{Z}_2$	384	6	1
O5.76	$(0; \{4, 4, 4\})$	$\langle 32, 2 \rangle$	$(\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_4$	384	1	1
O5.77	$(0; \{4, 4, 4\})$	$\langle 32, 6 \rangle$	$((\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_2) : \mathbb{Z}_2$	192	3	1
O5.78	$(0; \{2, 8, 8\})$	$\langle 32, 5 \rangle$	$(\mathbb{Z}_8 \times \mathbb{Z}_2) : \mathbb{Z}_2$	64	1	1
O5.79	$(0; \{2, 8, 8\})$	$\langle 32, 7 \rangle$	$(\mathbb{Z}_8 : \mathbb{Z}_2) : \mathbb{Z}_2$	128	1	1
O5.80	$(0; \{2, 4, 20\})$	$\langle 40, 5 \rangle$	$\mathbb{Z}_4 \times \text{D}_{10}$	80	1	1
O5.81	$(0; \{2, 2, 2, 3\})$	$\langle 48, 48 \rangle$	$\mathbb{Z}_2 \times \text{Sym}(4)$	432	9	1
O5.82	$(0; \{3, 4, 4\})$	$\langle 48, 30 \rangle$	$\text{Alt}(4) : \mathbb{Z}_4$	144	3	2
O5.83	$(0; \{2, 6, 6\})$	$\langle 48, 49 \rangle$	$\mathbb{Z}_2 \times \mathbb{Z}_2 \times \text{Alt}(4)$	144	1	1
O5.84	$(0; \{2, 4, 12\})$	$\langle 48, 14 \rangle$	$(\mathbb{Z}_{12} \times \mathbb{Z}_2) : \mathbb{Z}_2$	96	1	1
O5.85	$(0; \{3, 3, 5\})$	$\langle 60, 5 \rangle$	$\text{Alt}(5)$	120	1	1
O5.86	$(0; \{2, 4, 8\})$	$\langle 64, 8 \rangle$	$((\mathbb{Z}_8 \times \mathbb{Z}_2) : \mathbb{Z}_2) : \mathbb{Z}_2$	128	1	1
O5.87	$(0; \{2, 4, 8\})$	$\langle 64, 32 \rangle$	$((\mathbb{Z}_8 : \mathbb{Z}_2) : \mathbb{Z}_2) : \mathbb{Z}_2$	128	1	1
O5.88	$(0; \{2, 5, 5\})$	$\langle 80, 49 \rangle$	$\mathbb{Z}_2^4 : \mathbb{Z}_5$	960	1	1
O5.89	$(0; \{3, 3, 4\})$	$\langle 96, 3 \rangle$	$((\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_4) : \mathbb{Z}_3$	384	1	1
O5.90	$(0; \{2, 4, 6\})$	$\langle 96, 195 \rangle$	$(\mathbb{Z}_2 \times \mathbb{Z}_2 \times \text{Alt}(4)) : \mathbb{Z}_2$	96	1	1
O5.91	$(0; \{2, 3, 10\})$	$\langle 120, 35 \rangle$	$\mathbb{Z}_2 \times \text{Alt}(5)$	120	1	1
O5.92	$(0; \{2, 4, 5\})$	$\langle 160, 234 \rangle$	$(\mathbb{Z}_2^4 : \mathbb{Z}_5) : \mathbb{Z}_2$	960	1	1
O5.93	$(0; \{2, 3, 8\})$	$\langle 192, 181 \rangle$	$((\mathbb{Z}_4 \times \mathbb{Z}_2) : \mathbb{Z}_4) : \mathbb{Z}_3 : \mathbb{Z}_2$	384	1	1