The group $G$ is isomorphic to the group labelled by [ 48, 7 ] in the Small Groups library.
Ordinary character table of $G \cong$ D48:

| | $1a$ | $2a$ | $8a$ | $4a$ | $2b$ | $3a$ | $2c$ | $8b$ | $24a$ | $12a$ | $6a$ | $24b$ | $24c$ | $12b$ | $24d$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $\chi_1$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| $\chi_2$ | 1 | $-1$ | $-1$ | 1 | 1 | 1 | 1 | $-1$ | $-1$ | 1 | 1 | $-1$ | $-1$ | 1 | $-1$ |
| $\chi_3$ | 1 | $-1$ | 1 | 1 | 1 | 1 | $-1$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| $\chi_4$ | 1 | 1 | $-1$ | 1 | 1 | 1 | $-1$ | $-1$ | $-1$ | 1 | 1 | $-1$ | $-1$ | 1 | $-1$ |
| $\chi_5$ | 2 | 0 | $-2$ | 2 | 2 | $-1$ | 0 | $-2$ | 1 | $-1$ | $-1$ | 1 | 1 | $-1$ | 1 |
| $\chi_6$ | 2 | 0 | 2 | 2 | 2 | $-1$ | 0 | 2 | $-1$ | $-1$ | $-1$ | $-1$ | $-1$ | $-1$ | $-1$ |
| $\chi_7$ | 2 | 0 | 0 | $-2$ | 2 | 2 | 0 | 0 | 0 | $-2$ | 2 | 0 | 0 | $-2$ | 0 |
| $\chi_8$ | 2 | 0 | $E(8)-E(8)^3$ | 0 | $-2$ | 2 | 0 | $-E(8)+E(8)^3$ | $E(8)-E(8)^3$ | 0 | $-2$ | $E(8)-E(8)^3$ | $-E(8)+E(8)^3$ | 0 | $-E(8)+E(8)^3$ |
| $\chi_9$ | 2 | 0 | $-E(8)+E(8)^3$ | 0 | $-2$ | 2 | 0 | $E(8)-E(8)^3$ | $-E(8)+E(8)^3$ | 0 | $-2$ | $-E(8)+E(8)^3$ | $E(8)-E(8)^3$ | 0 | $E(8)-E(8)^3$ |
| $\chi_{10}$ | 2 | 0 | 0 | $-2$ | 2 | $-1$ | 0 | 0 | $-E(12)^7+E(12)^{11}$ | 1 | $-1$ | $E(12)^7-E(12)^{11}$ | $-E(12)^7+E(12)^{11}$ | 1 | $E(12)^7-E(12)^{11}$ |
| $\chi_{11}$ | 2 | 0 | 0 | $-2$ | 2 | $-1$ | 0 | 0 | $E(12)^7-E(12)^{11}$ | 1 | $-1$ | $-E(12)^7+E(12)^{11}$ | $E(12)^7-E(12)^{11}$ | 1 | $-E(12)^7+E(12)^{11}$ |
| $\chi_{12}$ | 2 | 0 | $-E(8)+E(8)^3$ | 0 | $-2$ | $-1$ | 0 | $E(8)-E(8)^3$ | $E(24)^{17}-E(24)^{19}$ | $E(12)^7-E(12)^{11}$ | 1 | $E(24)-E(24)^{11}$ | $-E(24)^{17}+E(24)^{19}$ | $-E(12)^7+E(12)^{11}$ | $-E(24)+E(24)^{11}$ |
| $\chi_{13}$ | 2 | 0 | $-E(8)+E(8)^3$ | 0 | $-2$ | $-1$ | 0 | $E(8)-E(8)^3$ | $E(24)-E(24)^{11}$ | $-E(12)^7+E(12)^{11}$ | 1 | $E(24)^{17}-E(24)^{19}$ | $-E(24)+E(24)^{11}$ | $E(12)^7-E(12)^{11}$ | $-E(24)^{17}+E(24)^{19}$ |
| $\chi_{14}$ | 2 | 0 | $E(8)-E(8)^3$ | 0 | $-2$ | $-1$ | 0 | $-E(8)+E(8)^3$ | $-E(24)+E(24)^{11}$ | $-E(12)^7+E(12)^{11}$ | 1 | $-E(24)^{17}+E(24)^{19}$ | $E(24)-E(24)^{11}$ | $E(12)^7-E(12)^{11}$ | $E(24)^{17}-E(24)^{19}$ |
| $\chi_{15}$ | 2 | 0 | $E(8)-E(8)^3$ | 0 | $-2$ | $-1$ | 0 | $-E(8)+E(8)^3$ | $-E(24)^{17}+E(24)^{19}$ | $E(12)^7-E(12)^{11}$ | 1 | $-E(24)+E(24)^{11}$ | $E(24)^{17}-E(24)^{19}$ | $-E(12)^7+E(12)^{11}$ | $E(24)-E(24)^{11}$ |

Trivial source character table of $G \cong$ D48 at $p = 2$:

| Normalisers $N_i$ | $N_1$ | | $N_2$ | | $N_3$ | $N_4$ | $N_5$ | | $N_6$ | $N_7$ | $N_8$ | | $N_9$ | $N_{10}$ | $N_{11}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $p$-subgroups of $G$ up to conjugacy in $G$ | $P_1$ | | $P_2$ | | $P_3$ | $P_4$ | $P_5$ | | $P_6$ | $P_7$ | $P_8$ | | $P_9$ | $P_{10}$ | $P_{11}$ |
| Representatives $n_j \in N_i$ | $1a$ | $3a$ | $1a$ | $3a$ | $1a$ | $1a$ | $1a$ | $3a$ | $1a$ | $1a$ | $1a$ | $3a$ | $1a$ | $1a$ | $1a$ |
| $1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+2\cdot\chi_7+2\cdot\chi_8+2\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+1\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}$ | 16 | $-8$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+2\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 8 | $-4$ | 8 | $-4$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 8 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 8 | 8 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 4 | $-2$ | 4 | $-2$ | 0 | 0 | 4 | $-2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 4 | 4 | 4 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 4 | 4 | 4 | 4 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| $1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| $0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 2 | $-1$ | 2 | $-1$ | 0 | 0 | 2 | $-1$ | 0 | 0 | 2 | $-1$ | 0 | 0 | 0 |
| $1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| $1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| $1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C2
$P_3 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43)]) \cong$ C2
$P_4 = Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39)]) \cong$ C2
$P_5 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44)]) \cong$ C4
$P_6 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43)]) \cong$ C2 x C2
$P_7 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39)]) \cong$ C2 x C2
$P_8 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44)]) \cong$ C8
$P_9 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43)]) \cong$ D8
$P_{10} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39)]) \cong$ D8
$P_{11} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43)]) \cong$ D16

$N_1 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ D48
$N_2 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ D48
$N_3 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C2 x C2
$N_4 = Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C2 x C2
$N_5 = Group([(1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ D48
$N_6 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48)]) \cong$ D8
$N_7 = Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48)]) \cong$ D8
$N_8 = Group([(1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ D48
$N_9 = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44)]) \cong$ D16
$N_{10} = Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43)]) \cong$ D16
$N_{11} = Group([(1,2)(3,18)(4,21)(5,9)(6,24)(7,11)(8,14)(10,17)(12,32)(13,44)(15,46)(16,38)(19,25)(20,40)(22,42)(23,31)(26,35)(27,48)(28,33)(29,37)(30,36)(34,47)(39,45)(41,43), (1,3,14,25,5,12,4,11)(2,7,21,32,9,19,8,18)(6,13,29,39,16,27,15,26)(10,20,36,43,23,34,22,33)(17,28,42,47,31,41,30,40)(24,35,46,48,38,45,37,44), (1,14,5,4)(2,21,9,8)(3,25,12,11)(6,29,16,15)(7,32,19,18)(10,36,23,22)(13,39,27,26)(17,42,31,30)(20,43,34,33)(24,46,38,37)(28,47,41,40)(35,48,45,44), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ D16