

The group  $G$  labelled by [ 48, 5 ] in the Small Groups library.  
 Ordinary character table of  $G \cong C24 : C2$ :

	1a	2a	8a	4a	2b	3a	8b	4b	8c	24a	4c	12a	6a	8d	24b	24c	12b	24d
$\chi_1$	1	1	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	-1	1	-1
$\chi_3$	1	-1	1	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	1	1	-1
$\chi_5$	1	-1	$-E(4)$	-1	1	1	$E(4)$	1	$E(4)$	$-E(4)$	-1	-1	1	$-E(4)$	$E(4)$	$-E(4)$	-1	$E(4)$
$\chi_6$	1	-1	$E(4)$	-1	1	1	$-E(4)$	1	$-E(4)$	$E(4)$	-1	-1	1	$E(4)$	$-E(4)$	$E(4)$	-1	$-E(4)$
$\chi_7$	1	1	$-E(4)$	-1	1	1	$-E(4)$	-1	$E(4)$	$-E(4)$	-1	-1	1	$E(4)$	$E(4)$	$-E(4)$	-1	$E(4)$
$\chi_8$	1	1	$E(4)$	-1	1	1	$E(4)$	-1	$-E(4)$	$E(4)$	-1	-1	1	$-E(4)$	$-E(4)$	$E(4)$	-1	$-E(4)$
$\chi_9$	2	0	-2	2	2	-1	0	0	-2	1	2	-1	-1	0	1	1	0	1
$\chi_{10}$	2	0	2	2	2	-1	0	0	2	-1	2	-1	-1	0	-1	-1	-1	-1
$\chi_{11}$	2	0	$-2 * E(4)$	-2	2	-1	0	0	$2 * E(4)$	$E(4)$	-2	1	-1	0	$-E(4)$	$E(4)$	1	$-E(4)$
$\chi_{12}$	2	0	$2 * E(4)$	-2	2	-1	0	0	$-2 * E(4)$	$-E(4)$	-2	1	-1	0	$E(4)$	$-E(4)$	1	$E(4)$
$\chi_{13}$	2	0	0	$-2 * E(4)$	-2	2	0	0	0	0	$2 * E(4)$	$-2 * E(4)$	-2	0	0	0	$2 * E(4)$	0
$\chi_{14}$	2	0	0	$2 * E(4)$	-2	2	0	0	0	0	$-2 * E(4)$	$2 * E(4)$	-2	0	0	0	$-2 * E(4)$	0
$\chi_{15}$	2	0	0	$-2 * E(4)$	-2	-1	0	0	0	$-E(24) + E(24)^{17}$	$2 * E(4)$	$E(4)$	1	0	$E(24)^{11} - E(24)^{19}$	$E(24) - E(24)^{17}$	$-E(4)$	$-E(24)^{11} + E(24)^{19}$
$\chi_{16}$	2	0	0	$-2 * E(4)$	-2	-1	0	0	0	$E(24) - E(24)^{17}$	$2 * E(4)$	$E(4)$	1	0	$-E(24)^{11} + E(24)^{19}$	$-E(24) + E(24)^{17}$	$-E(4)$	$E(24)^{11} - E(24)^{19}$
$\chi_{17}$	2	0	0	$2 * E(4)$	-2	-1	0	0	0	$-E(24)^{11} + E(24)^{19}$	$-2 * E(4)$	$-E(4)$	1	0	$E(24) - E(24)^{17}$	$E(24)^{11} - E(24)^{19}$	$E(4)$	$-E(24) + E(24)^{19}$
$\chi_{18}$	2	0	0	$2 * E(4)$	-2	-1	0	0	0	$E(24)^{11} - E(24)^{19}$	$-2 * E(4)$	$-E(4)$	1	0	$-E(24) + E(24)^{17}$	$-E(24)^{11} + E(24)^{19}$	$E(4)$	$E(24) - E(24)^{17}$

Trivial source character table of  $G \cong C24 : C2$  at  $p = 2$ :

Normalisers $N_i$	$N_1$	$N_2$	$N_3$	$N_4$	$N_5$	$N_6$	$N_7$	$N_8$	$N_9$	$N_{10}$
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$	$P_2$	$P_3$	$P_4$	$P_5$	$P_6$	$P_7$	$P_8$	$P_9$	$P_{10}$
Representatives $n_i \in N_i$	1a	3a	1a	3a	1a	3a	1a	3a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	16	16	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18}$	16	-8	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	8	8	8	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	-4	8	-4	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	8	0	0	4	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	0	4	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	-2	4	-2	0	4	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	0	4	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	0	0	0	4	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	0	2	0	2	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	-1	2	-1	0	2	-1	0	2	-1
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	2	2	2	2	2	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	0	2	0	0	0	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	1	1	1	1	1	1	1	1	1	1

$P_1 = Group([\emptyset]) \cong 1$

$P_2 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C2$

$P_3 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C2$

$P_4 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C4$

$P_5 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C2 \times C2$

$P_6 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C4$

$P_7 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C8$

$P_8 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C4 \times C2$

$P_9 = Group([(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C8$

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

$N_1 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C24 : C2$

$N_2 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C24 : C2$

$N_3 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C4 \times C2$

$N_4 = Group([(1, 4, 5, 14)(2, 8, 9, 21)(3, 11, 12, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 23, 36)(13, 26, 27, 39)(17, 30, 41, 42)(20, 33, 34, 43)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 48)]) \cong C24 : C2$

$N_5 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C8 : C2$

$N_6 = Group([(1, 8, 5, 21)(2, 4, 9, 14)(3, 32, 12, 18)(6, 37, 16, 46)(7, 25, 19, 11)(10, 30, 23, 42)(13, 48, 27, 44)(15, 38, 29, 24)(17, 22, 31, 36)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)]) \cong C8 : C2$

$N_7 = Group([(1, 3, 4, 11, 5, 12, 14, 25)(2, 7, 8, 18, 9, 19, 21, 32)(6, 13, 15, 26, 16, 27, 29, 39)(10, 20, 22, 33, 23, 34, 36, 43)(17, 28, 30, 40, 31, 41, 42, 47)(24, 35, 37, 44, 38, 45, 46, 48)]) \cong C8 : C2$

$N_8 = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C8 : C2$

$N_9 = Group([(1, 19, 14, 18, 5, 7, 4, 32)(2, 12, 21, 11, 9, 3, 8, 25)(6, 45, 29, 44, 16, 35, 15, 48)(10, 41, 36, 40, 23, 28, 22, 47)(13, 37, 39, 24, 27, 46, 26, 38)(17, 34, 42, 33, 31, 20, 30, 43)]) \cong C8 : C2$

$N_{10} = Group([(1, 2)(3, 19)(4, 8)(5, 9)(6, 24)(7, 12)(10, 17)(11, 32)(13, 45)(14, 21)(15, 37)(16, 38)(18, 25)(20, 41)(22, 30)(23, 31)(26, 48)(27, 35)(28, 34)(29, 46)(33, 47)(36, 42)(39, 44)(40, 43)]) \cong C8 : C2$