

The group  $G$  is isomorphic to the group labelled by [ 48, 8 ] in the Small Groups library.  
 Ordinary character table of  $G \cong \text{C3} : \text{Q16}$ :

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

Trivial source character table of  $G \cong \text{C3} : \text{Q16}$  at  $p = 2$ :

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

- $P_1 = \text{Group}(\{()\}) \cong 1$
- $P_2 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{C2}$
- $P_3 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{C4}$
- $P_4 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{C4}$
- $P_5 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{C4}$
- $P_6 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{C8}$
- $P_7 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{Q8}$
- $P_8 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{Q8}$
- $P_9 = \text{Group}(\{(1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48)\}) \cong \text{Q16}$

- $N_1 = \text{Group}(\{(1, 2, 5, 9)(3, 18, 12, 32)(4, 21, 14, 8)(6, 24, 16, 38)(7, 25, 19, 11)(10, 31, 23, 17)(13, 44, 27, 48)(15, 46, 29, 37)(20, 47, 34, 40)(22, 30, 36, 42)(26, 35, 39, 45)(28, 33, 41, 43)(1, 3, 14, 25, 5, 12, 4, 11)(2, 7, 21, 32, 9, 19, 8, 18)(6, 13, 29, 39, 16, 27, 15, 26)(10, 20, 36, 43, 23, 34, 22, 33)(17, 28, 42, 47, 31, 41, 30, 40)(24, 35, 46, 48, 38, 45, 37, 44)(1, 4, 5, 14)(2, 8, 9, 21)(3, 11, 12, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 23, 36)(13, 26, 27, 39)(17, 30, 31, 42)(20, 33, 34, 43)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 48), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 6, 17)(2, 10, 24)(3, 13, 28)(4, 15, 30)(5, 16, 31)(7, 20, 35)(8, 22, 37)(9, 23, 38)(11, 26, 40)(12, 27, 41)(14, 29, 42)(18, 33, 44)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)\}) \cong \text{C3} : \text{Q16}$
- $N_2 = \text{Group}(\{(1, 2, 5, 9)(3, 18, 12, 32)(4, 21, 14, 8)(6, 24, 16, 38)(7, 25, 19, 11)(10, 31, 23, 17)(13, 44, 27, 48)(15, 46, 29, 37)(20, 47, 34, 40)(22, 30, 36, 42)(26, 35, 39, 45)(28, 33, 41, 43)(1, 3, 14, 25, 5, 12, 4, 11)(2, 7, 21, 32, 9, 19, 8, 18)(6, 13, 29, 39, 16, 27, 15, 26)(10, 20, 36, 43, 23, 34, 22, 33)(17, 28, 42, 47, 31, 41, 30, 40)(24, 35, 46, 48, 38, 45, 37, 44)(1, 4, 5, 14)(2, 8, 9, 21)(3, 11, 12, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 23, 36)(13, 26, 27, 39)(17, 30, 31, 42)(20, 33, 34, 43)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 48), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 6, 17)(2, 10, 24)(3, 13, 28)(4, 15, 30)(5, 16, 31)(7, 20, 35)(8, 22, 37)(9, 23, 38)(11, 26, 40)(12, 27, 41)(14, 29, 42)(18, 33, 44)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)\}) \cong \text{C3} : \text{Q16}$
- $N_3 = \text{Group}(\{(1, 14, 5, 4)(2, 21, 9, 8)(3, 25, 12, 11)(6, 29, 16, 15)(7, 32, 19, 18)(10, 36, 23, 22)(13, 39, 27, 26)(17, 42, 31, 30)(20, 43, 34, 33)(24, 46, 38, 37)(28, 47, 41, 40)(35, 48, 45, 44), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 2, 5, 9)(3, 18, 12, 32)(4, 21, 14, 8)(6, 24, 16, 38)(7, 25, 19, 11)(10, 31, 23, 17)(13, 44, 27, 48)(15, 46, 29, 37)(20, 47, 34, 40)(22, 30, 36, 42)(26, 35, 39, 45)(28, 33, 41, 43), (1, 3, 14, 25, 5, 12, 4, 11)(2, 7, 21, 32, 9, 19, 8, 18)(6, 13, 29, 39, 16, 27, 15, 26)(10, 20, 36, 43, 23, 34, 22, 33)(17, 28, 42, 47, 31, 41, 30, 40)(24, 35, 46, 48, 38, 45, 37, 44), (1, 6, 17)(2, 10, 24)(3, 13, 28)(4, 15, 30)(5, 16, 31)(7, 20, 35)(8, 22, 37)(9, 23, 38)(11, 26, 40)(12, 27, 41)(14, 29, 42)(18, 33, 44)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)\}) \cong \text{C3} : \text{Q16}$
- $N_4 = \text{Group}(\{(1, 2, 5, 9)(3, 18, 12, 32)(4, 21, 14, 8)(6, 24, 16, 38)(7, 25, 19, 11)(10, 31, 23, 17)(13, 44, 27, 48)(15, 46, 29, 37)(20, 47, 34, 40)(22, 30, 36, 42)(26, 35, 39, 45)(28, 33, 41, 43), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 4, 5, 14)(2, 8, 9, 21)(3, 11, 12, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 23, 36)(13, 26, 27, 39)(17, 30, 31, 42)(20, 33, 34, 43)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 48)\}) \cong \text{Q8}$
- $N_5 = \text{Group}(\{(1, 18, 5, 32)(2, 25, 9, 11)(3, 8, 12, 21)(4, 7, 14, 19)(6, 44, 16, 48)(10, 47, 23, 40)(13, 37, 27, 46)(15, 35, 29, 45)(17, 33, 31, 43)(20, 42, 34, 30)(22, 41, 36, 28)(24, 39, 38, 26), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 4, 5, 14)(2, 8, 9, 21)(3, 11, 12, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 23, 36)(13, 26, 27, 39)(17, 30, 31, 42)(20, 33, 34, 43)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 48)\}) \cong \text{Q8}$
- $N_6 = \text{Group}(\{(1, 3, 14, 25, 5, 12, 4, 11)(2, 7, 21, 32, 9, 19, 8, 18)(6, 13, 29, 39, 16, 27, 15, 26)(10, 20, 36, 43, 23, 34, 22, 33)(17, 28, 42, 47, 31, 41, 30, 40)(24, 35, 46, 48, 38, 45, 37, 44), (1, 4, 5, 14)(2, 8, 9, 21)(3,$