

# GROUPS OF ORDERS 65 - 71

## SUMMARY

order	65	66	67	68	69	70	71
# abelian	1	1	1	2	1	1	1
# other decomposable	0	2	0	1	0	2	0
# other indecomposable	0	1	0	2	0	1	0
<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>1</b>

$$65 = \langle A^{65} \rangle = 13 \times 5$$

$$66 = \langle A^{66} \rangle = 22 \times 3$$

$$66.2 = D_6 \times 11 = \langle A^3, B^2, C^{11}, BA = A^{-1}B \rangle$$

$$66.3 = D_{22} \times 3 = \langle A^{11}, B^2, C^3, BA = A^{-1}B \rangle$$



$$66.4 = D_{66} = \langle A^{33}, B^2, BA = A^{-1}B \rangle \quad c_k = 2\cos(2k\pi/33)$$

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>1</b>	$A^{11}$	$A$	$A^2$	$A^3$	$A^4$	$A^5$	$A^6$	$A^7$	$A^8$	$A^9$	$A^{10}$	$A^{12}$	$A^{13}$	$A^{14}$	$A^{15}$	$A^{16}$	$A^{17}$	$A^{18}$
	$A^{22}$	$A^{32}$	$A^{31}$	$A^{30}$	$A^{29}$	$A^{28}$	$A^{27}$	$A^{26}$	$A^{25}$	$A^{24}$	$A^{23}$	$A^{21}$	$A^{20}$	$A^{19}$	$A^{18}$	$A^{17}$	$A^{16}$	$A^{15}$

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>		
	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>33</b>	$\mathcal{X}$
<b>1</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	G
<b>1</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1
<b>2</b>	-1	-1	-1	2	-1	-1	2	-1	-1	2	-1	2	-1	-1	2	-1	0	0	0	2
<b>2</b>	-1	$c_1$	$c_2$	$c_3$	$c_4$	$c_5$	$c_6$	$c_7$	$c_8$	$c_9$	$c_{10}$	$c_{12}$	$c_{13}$	$c_{14}$	$c_{15}$	$c_{16}$	0	0	0	0
<b>2</b>	-1	$c_2$	$c_4$	$c_6$	$c_8$	$c_{10}$	$c_{12}$	$c_{14}$	$c_{16}$	$c_{15}$	$c_{13}$	$c_9$	$c_7$	$c_5$	$c_3$	$c_1$	0	0	0	0
<b>2</b>	2	$c_3$	$c_6$	$c_9$	$c_{12}$	$c_{15}$	$c_{15}$	$c_{12}$	$c_9$	$c_6$	$c_3$	$c_3$	$c_6$	$c_9$	$c_{12}$	$c_{15}$	0	0	0	3
<b>2</b>	-1	$c_4$	$c_8$	$c_{12}$	$c_{16}$	$c_{13}$	$c_9$	$c_5$	$c_1$	$c_3$	$c_7$	$c_{15}$	$c_{14}$	$c_{10}$	$c_6$	$c_2$	0	0	0	0
<b>2</b>	-1	$c_5$	$c_{10}$	$c_{15}$	$c_{13}$	$c_8$	$c_3$	$c_2$	$c_7$	$c_{12}$	$c_{16}$	$c_6$	$c_1$	$c_4$	$c_9$	$c_{14}$	0	0	0	0
<b>2</b>	2	$c_6$	$c_{12}$	$c_{15}$	$c_9$	$c_3$	$c_3$	$c_9$	$c_{15}$	$c_{12}$	$c_6$	$c_6$	$c_{12}$	$c_{15}$	$c_9$	$c_3$	0	0	0	3
<b>2</b>	-1	$c_7$	$c_{14}$	$c_{12}$	$c_5$	$c_2$	$c_9$	$c_{16}$	$c_{10}$	$c_3$	$c_4$	$c_{15}$	$c_8$	$c_1$	$c_6$	$c_{13}$	0	0	0	0
<b>2</b>	-1	$c_8$	$c_{16}$	$c_9$	$c_1$	$c_7$	$c_{15}$	$c_{10}$	$c_2$	$c_6$	$c_{14}$	$c_3$	$c_5$	$c_{13}$	$c_{12}$	$c_4$	0	0	0	0
<b>2</b>	2	$c_9$	$c_{15}$	$c_6$	$c_3$	$c_{12}$	$c_{12}$	$c_3$	$c_6$	$c_{15}$	$c_9$	$c_9$	$c_{15}$	$c_6$	$c_3$	$c_{12}$	0	0	0	3
<b>2</b>	-1	$c_{10}$	$c_{13}$	$c_3$	$c_7$	$c_{16}$	$c_6$	$c_4$	$c_{14}$	$c_9$	$c_1$	$c_{12}$	$c_2$	$c_8$	$c_{15}$	$c_5$	0	0	0	0
<b>2</b>	2	$c_{12}$	$c_9$	$c_3$	$c_{15}$	$c_6$	$c_6$	$c_{15}$	$c_3$	$c_9$	$c_{12}$	$c_{12}$	$c_9$	$c_3$	$c_{15}$	$c_6$	0	0	0	3
<b>2</b>	-1	$c_{13}$	$c_7$	$c_6$	$c_{14}$	$c_1$	$c_{12}$	$c_8$	$c_5$	$c_{15}$	$c_2$	$c_9$	$c_4$	$c_{16}$	$c_3$	$c_{10}$	0	0	0	0
<b>2</b>	-1	$c_{14}$	$c_5$	$c_9$	$c_{10}$	$c_4$	$c_{15}$	$c_1$	$c_{13}$	$c_6$	$c_8$	$c_3$	$c_{16}$	$c_2$	$c_{12}$	$c_7$	0	0	0	0
<b>2</b>	2	$c_{15}$	$c_3$	$c_{12}$	$c_6$	$c_9$	$c_9$	$c_6$	$c_{12}$	$c_3$	$c_{15}$	$c_{15}$	$c_3$	$c_{12}$	$c_6$	$c_9$	0	0	0	3
<b>2</b>	-1	$c_{16}$	$c_1$	$c_{15}$	$c_2$	$c_{14}$	$c_3$	$c_{13}$	$c_4$	$c_{12}$	$c_5$	$c_6$	$c_{10}$	$c_7$	$c_9$	$c_8$	0	0	0	0
	<b>1</b>	<b>3</b>	<b>33</b>	<b>33</b>	<b>11</b>	<b>33</b>	<b>33</b>	<b>11</b>	<b>33</b>	<b>33</b>	<b>11</b>	<b>33</b>	<b>11</b>	<b>33</b>	<b>33</b>	<b>11</b>	<b>33</b>	<b>2</b>		

Classes

H G/H

1	1+2+3 +4+5+6+7+8+9+10+11+12+13+14+15+16+17	33	2	1 G'
2	1 + 5 + 8 + 11 + 13 + 16	11	D <sub>6</sub>	2
3	1 + 2	3	D <sub>22</sub>	3

Sylow subgroups: [2] × 33, [3], [11] Maximal subgroups: [33], [D<sub>6</sub>] × 11

$$67 = \langle A^{67} \rangle$$

$$68 = \langle A^{68} \rangle = 17 \times 4$$

$$68.2 = 34 \times 2 = \langle A^{34}, B^2 \rangle$$

$$68.3 = D_{34} \times 2 = \langle A^{17}, B^2, C^2, BA = A^{-1}B \rangle$$

$$68.4 = D_{17,4} = \langle A^{17}, B^4, BA = A^{-1}B \rangle$$

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>1</b>	1	$B^2$	$A$	$A^2$	$A^3$	$A^4$	$A^5$	$A^6$	$A^7$	$A^8$
			$A^{16}$	$A^{15}$	$A^{14}$	$A^{13}$	$A^{12}$	$A^{11}$	$A^{10}$	$A^9$

	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
	$AB^2$	$A^2B^2$	$A^3B^2$	$A^4B^2$	$A^5B^2$	$A^6B^2$	$A^7B^2$	$A^8B^2$	$A^nB$	$A^nB^3$
	$A^{16}B^2$	$A^{15}B^2$	$A^{14}B^2$	$A^{13}B^2$	$A^{12}B^2$	$A^{11}B^2$	$A^{10}B^2$	$A^9B^2$		

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>			
1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17	17	$\mathfrak{K}$	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	G	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	1	
1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	i	-i	2
1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-i	i	2
2	2	$c_1$	$c_2$	$c_3$	$c_4$	$c_5$	$c_6$	$c_7$	$c_8$	$c_1$	$c_2$	$c_3$	$c_4$	$c_5$	$c_6$	$c_7$	$c_8$	0	0	0	0	3
2	2	$c_2$	$c_4$	$c_6$	$c_8$	$c_7$	$c_5$	$c_3$	$c_1$	$c_2$	$c_4$	$c_6$	$c_8$	$c_7$	$c_5$	$c_3$	$c_1$	0	0	0	0	3
2	2	$c_3$	$c_6$	$c_8$	$c_5$	$c_2$	$c_1$	$c_4$	$c_7$	$c_3$	$c_6$	$c_8$	$c_5$	$c_2$	$c_1$	$c_4$	$c_7$	0	0	0	0	3
2	2	$c_4$	$c_8$	$c_5$	$c_1$	$c_3$	$c_7$	$c_6$	$c_2$	$c_4$	$c_8$	$c_5$	$c_1$	$c_3$	$c_7$	$c_6$	$c_2$	0	0	0	0	3
2	2	$c_5$	$c_7$	$c_2$	$c_3$	$c_8$	$c_4$	$c_1$	$c_6$	$c_5$	$c_7$	$c_2$	$c_3$	$c_8$	$c_4$	$c_1$	$c_6$	0	0	0	0	3
2	2	$c_6$	$c_5$	$c_1$	$c_7$	$c_4$	$c_2$	$c_8$	$c_3$	$c_6$	$c_5$	$c_1$	$c_7$	$c_4$	$c_2$	$c_8$	$c_3$	0	0	0	0	3
2	2	$c_7$	$c_3$	$c_4$	$c_6$	$c_1$	$c_8$	$c_2$	$c_5$	$c_7$	$c_3$	$c_4$	$c_6$	$c_1$	$c_8$	$c_2$	$c_5$	0	0	0	0	3
2	2	$c_8$	$c_1$	$c_7$	$c_2$	$c_6$	$c_3$	$c_5$	$c_4$	$c_8$	$c_1$	$c_7$	$c_2$	$c_6$	$c_3$	$c_5$	$c_4$	0	0	0	0	3
2	-2	$c_1$	$c_2$	$c_3$	$c_4$	$c_5$	$c_6$	$c_7$	$c_8$	$-c_1$	$-c_2$	$-c_3$	$-c_4$	$-c_5$	$-c_6$	$-c_7$	$-c_8$	0	0	0	0	0
2	-2	$c_2$	$c_4$	$c_6$	$c_8$	$c_7$	$c_5$	$c_3$	$c_1$	$-c_2$	$-c_4$	$-c_6$	$-c_8$	$-c_7$	$-c_5$	$-c_3$	$-c_1$	0	0	0	0	0
2	-2	$c_3$	$c_6$	$c_8$	$c_5$	$c_2$	$c_1$	$c_4$	$c_7$	$-c_3$	$-c_6$	$-c_8$	$-c_5$	$-c_2$	$-c_1$	$-c_4$	$-c_7$	0	0	0	0	0
2	-2	$c_4$	$c_8$	$c_5$	$c_1$	$c_3$	$c_7$	$c_6$	$c_2$	$-c_4$	$-c_8$	$-c_5$	$-c_1$	$-c_3$	$-c_7$	$-c_6$	$-c_2$	0	0	0	0	0
2	-2	$c_5$	$c_7$	$c_2$	$c_3$	$c_8$	$c_4$	$c_1$	$c_6$	$-c_5$	$-c_7$	$-c_2$	$-c_3$	$-c_8$	$-c_4$	$-c_1$	$-c_6$	0	0	0	0	0
2	-2	$c_6$	$c_5$	$c_1$	$c_7$	$c_4$	$c_2$	$c_8$	$c_3$	$-c_6$	$-c_5$	$-c_1$	$-c_7$	$-c_4$	$-c_2$	$-c_8$	$-c_3$	0	0	0	0	0
2	-2	$c_7$	$c_3$	$c_4$	$c_6$	$c_1$	$c_8$	$c_2$	$c_5$	$-c_7$	$-c_3$	$-c_4$	$-c_6$	$-c_1$	$-c_8$	$-c_2$	$-c_5$	0	0	0	0	0
2	-2	$c_8$	$c_1$	$c_7$	$c_2$	$c_6$	$c_3$	$c_5$	$c_4$	$-c_8$	$-c_1$	$-c_7$	$-c_2$	$-c_6$	$-c_3$	$-c_5$	$-c_4$	0	0	0	0	0

$$c_k = 2\cos(2k\pi/17)$$

	Classes	H	G/H	$\cap$
1	1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18	$D_{34}$	<b>2</b>	1
2	1 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10	<b>17</b>	<b>4</b>	2 $G'$
3	1 + 2	<b>2</b>	$D_{34}$	3

Sylow subgroups:  $[4] \times 17$ ,  $[17]$  Maximal subgroups:  $[D_{3,4}]$ ,  $[4] \times 17$

$$68.5 = M_{17,4}^{(4)} = \langle A^{17}, B^4, BA = A^4B \rangle$$

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>1</b>	A	A <sup>4</sup>	A <sup>2</sup> A <sup>8</sup>	A <sup>3</sup> A <sup>5</sup>	A <sup>6</sup> A <sup>7</sup>	A <sup>n</sup> B <sup>2</sup>	A <sup>n</sup> B	A <sup>n</sup> B <sup>3</sup>
	A <sup>13</sup>	A <sup>16</sup>	A <sup>9</sup> A <sup>15</sup>	A <sup>12</sup> A <sup>14</sup>	A <sup>10</sup> A <sup>11</sup>			

<b>C</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	
<b>#</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>17</b>	<b>17</b>	<b>17</b>	$\mathfrak{K}$
	1	1	1	1	1	1	1	1	G
	1	1	1	1	1	1	-1	-1	1
	1	1	1	1	1	-1	i	-i	2
	1	1	1	1	1	-1	-i	i	2
	4	c <sub>1</sub> + c <sub>4</sub>	c <sub>2</sub> + c <sub>8</sub>	c <sub>3</sub> + c <sub>5</sub>	c <sub>6</sub> + c <sub>7</sub>	0	0	0	0
	4	c <sub>2</sub> + c <sub>8</sub>	c <sub>1</sub> + c <sub>4</sub>	c <sub>6</sub> + c <sub>7</sub>	c <sub>3</sub> + c <sub>5</sub>	0	0	0	0
	4	c <sub>3</sub> + c <sub>5</sub>	c <sub>6</sub> + c <sub>7</sub>	c <sub>2</sub> + c <sub>8</sub>	c <sub>1</sub> + c <sub>4</sub>	0	0	0	0
	4	c <sub>6</sub> + c <sub>7</sub>	c <sub>3</sub> + c <sub>5</sub>	c <sub>1</sub> + c <sub>4</sub>	c <sub>2</sub> + c <sub>8</sub>	0	0	0	0
<b>^</b>	<b>1</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>2</b>	<b>4</b>	<b>4</b>	

$$c_k = 2\cos(2k\pi/17)$$

	Classes	H	G/H	
1	1 + 2 + 3 + 4 + 5 + 6	D <sub>34</sub>	2	1
2	1 + 2 + 3 + 4 + 5	17	4	2 G'

Sylow subgroups: [4] × 17, [17] Maximal subgroups: [D<sub>34</sub>], [4] × 17

$$69 = \langle A^{69} \rangle = 23 \times 3$$

$$70 = \langle A^{70} \rangle = 14 \times 5$$

$$70.2 = D_{10} \times 7 = \langle A^5, B^2, C^7, BA = A^{-1}B \rangle$$

$$70.3 = D_{14} \times 5 = \langle A^7, B^2, C^5, BA = A^{-1}B \rangle$$

$$70.4 = D_{70} = \langle A^{35}, B^2, BA = A^{-1}B \rangle$$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1	A	A <sup>2</sup>	A <sup>3</sup>	A <sup>4</sup>	A <sup>5</sup>	A <sup>6</sup>	A <sup>7</sup>	A <sup>8</sup>	A <sup>9</sup>	A <sup>10</sup>	A <sup>11</sup>	A <sup>12</sup>	A <sup>13</sup>	A <sup>14</sup>	A <sup>15</sup>	A <sup>16</sup>	A <sup>17</sup>	A <sup>18</sup>	A <sup>n</sup> B
	A <sup>34</sup>	A <sup>33</sup>	A <sup>32</sup>	A <sup>31</sup>	A <sup>30</sup>	A <sup>29</sup>	A <sup>28</sup>	A <sup>27</sup>	A <sup>26</sup>	A <sup>25</sup>	A <sup>24</sup>	A <sup>23</sup>	A <sup>22</sup>	A <sup>21</sup>	A <sup>20</sup>	A <sup>19</sup>	A <sup>18</sup>		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	35	$\mathcal{K}$
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	G
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1
2	c <sub>1</sub>	c <sub>2</sub>	c <sub>3</sub>	c <sub>4</sub>	c <sub>5</sub>	c <sub>6</sub>	c <sub>7</sub>	c <sub>8</sub>	c <sub>9</sub>	c <sub>10</sub>	c <sub>11</sub>	c <sub>12</sub>	c <sub>13</sub>	c <sub>14</sub>	c <sub>15</sub>	c <sub>16</sub>	c <sub>17</sub>	0	0	
2	c <sub>2</sub>	c <sub>4</sub>	c <sub>6</sub>	c <sub>8</sub>	c <sub>10</sub>	c <sub>12</sub>	c <sub>14</sub>	c <sub>16</sub>	c <sub>17</sub>	c <sub>15</sub>	c <sub>13</sub>	c <sub>11</sub>	c <sub>9</sub>	c <sub>7</sub>	c <sub>5</sub>	c <sub>3</sub>	c <sub>1</sub>	0	0	
2	c <sub>3</sub>	c <sub>6</sub>	c <sub>9</sub>	c <sub>12</sub>	c <sub>15</sub>	c <sub>17</sub>	c <sub>14</sub>	c <sub>11</sub>	c <sub>9</sub>	c <sub>5</sub>	c <sub>2</sub>	c <sub>1</sub>	c <sub>4</sub>	c <sub>7</sub>	c <sub>10</sub>	c <sub>13</sub>	c <sub>16</sub>	0	0	
2	c <sub>4</sub>	c <sub>8</sub>	c <sub>12</sub>	c <sub>16</sub>	c <sub>15</sub>	c <sub>11</sub>	c <sub>7</sub>	c <sub>3</sub>	c <sub>1</sub>	c <sub>5</sub>	c <sub>9</sub>	c <sub>13</sub>	c <sub>17</sub>	c <sub>14</sub>	c <sub>10</sub>	c <sub>6</sub>	c <sub>2</sub>	0	0	
2	c <sub>5</sub>	c <sub>10</sub>	c <sub>15</sub>	c <sub>15</sub>	c <sub>10</sub>	c <sub>5</sub>	2	c <sub>5</sub>	c <sub>10</sub>	c <sub>15</sub>	c <sub>15</sub>	c <sub>10</sub>	c <sub>5</sub>	2	c <sub>5</sub>	c <sub>10</sub>	c <sub>15</sub>	0	2	
2	c <sub>6</sub>	c <sub>12</sub>	c <sub>17</sub>	c <sub>11</sub>	c <sub>5</sub>	c <sub>1</sub>	c <sub>7</sub>	c <sub>13</sub>	c <sub>16</sub>	c <sub>10</sub>	c <sub>4</sub>	c <sub>2</sub>	c <sub>8</sub>	c <sub>14</sub>	c <sub>15</sub>	c <sub>9</sub>	c <sub>3</sub>	0	0	
2	c <sub>7</sub>	c <sub>14</sub>	c <sub>14</sub>	c <sub>7</sub>	2	c <sub>7</sub>	c <sub>14</sub>	c <sub>14</sub>	c <sub>7</sub>	2	c <sub>7</sub>	c <sub>14</sub>	c <sub>14</sub>	c <sub>7</sub>	2	c <sub>7</sub>	c <sub>14</sub>	0	3	
2	c <sub>8</sub>	c <sub>16</sub>	c <sub>11</sub>	c <sub>3</sub>	c <sub>5</sub>	c <sub>13</sub>	c <sub>14</sub>	c <sub>6</sub>	c <sub>2</sub>	c <sub>10</sub>	c <sub>17</sub>	c <sub>9</sub>	c <sub>7</sub>	c <sub>7</sub>	c <sub>15</sub>	c <sub>12</sub>	c <sub>4</sub>	0	0	
2	c <sub>9</sub>	c <sub>17</sub>	c <sub>8</sub>	c <sub>1</sub>	c <sub>10</sub>	c <sub>16</sub>	c <sub>7</sub>	c <sub>2</sub>	c <sub>11</sub>	c <sub>15</sub>	c <sub>6</sub>	c <sub>3</sub>	c <sub>12</sub>	c <sub>14</sub>	c <sub>5</sub>	c <sub>4</sub>	c <sub>13</sub>	0	0	
2	c <sub>10</sub>	c <sub>15</sub>	c <sub>5</sub>	c <sub>5</sub>	c <sub>15</sub>	c <sub>10</sub>	2	c <sub>10</sub>	c <sub>15</sub>	c <sub>5</sub>	c <sub>5</sub>	c <sub>15</sub>	c <sub>10</sub>	2	c <sub>10</sub>	c <sub>15</sub>	c <sub>5</sub>	0	2	
2	c <sub>11</sub>	c <sub>13</sub>	c <sub>2</sub>	c <sub>9</sub>	c <sub>15</sub>	c <sub>4</sub>	c <sub>7</sub>	c <sub>17</sub>	c <sub>6</sub>	c <sub>5</sub>	c <sub>16</sub>	c <sub>8</sub>	c <sub>3</sub>	c <sub>14</sub>	c <sub>10</sub>	c <sub>1</sub>	c <sub>12</sub>	0	0	
2	c <sub>12</sub>	c <sub>11</sub>	c <sub>1</sub>	c <sub>13</sub>	c <sub>10</sub>	c <sub>2</sub>	c <sub>14</sub>	c <sub>9</sub>	c <sub>3</sub>	c <sub>15</sub>	c <sub>8</sub>	c <sub>4</sub>	c <sub>16</sub>	c <sub>7</sub>	c <sub>5</sub>	c <sub>17</sub>	c <sub>6</sub>	0	0	
2	c <sub>13</sub>	c <sub>9</sub>	c <sub>4</sub>	c <sub>17</sub>	c <sub>5</sub>	c <sub>8</sub>	c <sub>14</sub>	c <sub>1</sub>	c <sub>12</sub>	c <sub>10</sub>	c <sub>3</sub>	c <sub>16</sub>	c <sub>6</sub>	c <sub>7</sub>	c <sub>15</sub>	c <sub>2</sub>	c <sub>11</sub>	0	0	
2	c <sub>14</sub>	c <sub>7</sub>	c <sub>7</sub>	c <sub>14</sub>	2	c <sub>14</sub>	c <sub>7</sub>	c <sub>7</sub>	c <sub>14</sub>	2	c <sub>14</sub>	c <sub>7</sub>	c <sub>7</sub>	c <sub>14</sub>	2	c <sub>14</sub>	c <sub>7</sub>	0	3	
2	c <sub>15</sub>	c <sub>5</sub>	c <sub>10</sub>	c <sub>10</sub>	c <sub>5</sub>	c <sub>15</sub>	2	c <sub>15</sub>	c <sub>5</sub>	c <sub>10</sub>	c <sub>10</sub>	c <sub>5</sub>	c <sub>15</sub>	2	c <sub>15</sub>	c <sub>5</sub>	c <sub>10</sub>	0	2	
2	c <sub>16</sub>	c <sub>3</sub>	c <sub>13</sub>	c <sub>6</sub>	c <sub>10</sub>	c <sub>9</sub>	c <sub>7</sub>	c <sub>12</sub>	c <sub>4</sub>	c <sub>15</sub>	c <sub>1</sub>	c <sub>17</sub>	c <sub>2</sub>	c <sub>14</sub>	c <sub>5</sub>	c <sub>11</sub>	c <sub>8</sub>	0	0	
2	c <sub>17</sub>	c <sub>1</sub>	c <sub>16</sub>	c <sub>2</sub>	c <sub>15</sub>	c <sub>3</sub>	c <sub>14</sub>	c <sub>4</sub>	c <sub>13</sub>	c <sub>5</sub>	c <sub>12</sub>	c <sub>6</sub>	c <sub>11</sub>	c <sub>7</sub>	c <sub>10</sub>	c <sub>8</sub>	c <sub>9</sub>	0	0	
1	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	2	

$$c_k = 2\cos(2k\pi/35)$$

	Classes	H	G/H	$\cap$	
1	1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18	35	2	1	$G'$
2	1 + 6 + 11 + 16	7	$D_{10}$	3	
3	1 + 8 + 15	5	$D_{14}$	2	

$$Z = \mathcal{Z} = \Phi = [1]$$

Sylow subgroups: [2]  $\times$  35, [5], [7] Maximal subgroups: [35], [D<sub>14</sub>]  $\times$  5, [D<sub>10</sub>]  $\times$  7

$$71 = \langle A^{71} \rangle$$

