

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (8 , 5) Order: 8 Genus: 1 Invariants: [2, 2, 2]	Magma Small Group (64 , 246) Order: 64 Genus: 41 Invariants: [2, 2, 2, 8]
Magma Small Group (16 , 10) Order: 16 Genus: 5 Invariants: [2, 2, 4]	Magma Small Group (64 , 260) Order: 64 Genus: 49 Invariants: [2, 2, 2, 2, 4]
Magma Small Group (16 , 14) Order: 16 Genus: 5 Invariants: [2, 2, 2, 2]	Magma Small Group (64 , 267) Order: 64 Genus: 49 Invariants: [2, 2, 2, 2, 2, 2]
Magma Small Group (24 , 15) Order: 24 Genus: 9 Invariants: [2, 2, 6]	Magma Small Group (72 , 18) Order: 72 Genus: 33 Invariants: [2, 2, 18]
Magma Small Group (27 , 5) Order: 27 Genus: 10 Invariants: [3, 3, 3]	Magma Small Group (72 , 50) Order: 72 Genus: 37 Invariants: [2, 6, 6]
Magma Small Group (32 , 21) Order: 32 Genus: 13 Invariants: [2, 4, 4]	Magma Small Group (80 , 45) Order: 80 Genus: 37 Invariants: [2, 2, 20]
Magma Small Group (32 , 36) Order: 32 Genus: 13 Invariants: [2, 2, 8]	Magma Small Group (80 , 52) Order: 80 Genus: 53 Invariants: [2, 2, 2, 10]
Magma Small Group (32 , 45) Order: 32 Genus: 17 Invariants: [2, 2, 2, 4]	Magma Small Group (81 , 11) Order: 81 Genus: 46 Invariants: [3, 3, 9]
Magma Small Group (32 , 51) Order: 32 Genus: 17 Invariants: [2, 2, 2, 2, 2]	Magma Small Group (81 , 15) Order: 81 Genus: 55 Invariants: [3, 3, 3, 3]
Magma Small Group (40 , 14) Order: 40 Genus: 17 Invariants: [2, 2, 10]	Magma Small Group (88 , 12) Order: 88 Genus: 41 Invariants: [2, 2, 22]
Magma Small Group (48 , 44) Order: 48 Genus: 21 Invariants: [2, 2, 12]	Magma Small Group (96 , 161) Order: 96 Genus: 49 Invariants: [2, 4, 12]
Magma Small Group (48 , 52) Order: 48 Genus: 29 Invariants: [2, 2, 2, 6]	Magma Small Group (96 , 176) Order: 96 Genus: 45 Invariants: [2, 2, 24]
Magma Small Group (54 , 15) Order: 54 Genus: 28 Invariants: [3, 3, 6]	Magma Small Group (96 , 220) Order: 96 Genus: 65 Invariants: [2, 2, 2, 12]
Magma Small Group (56 , 13) Order: 56 Genus: 25 Invariants: [2, 2, 14]	Magma Small Group (96 , 231) Order: 96 Genus: 81 Invariants: [2, 2, 2, 2, 6]
Magma Small Group (64 , 55) Order: 64 Genus: 33 Invariants: [4, 4, 4]	Magma Small Group (104 , 14) Order: 104 Genus: 49 Invariants: [2, 2, 26]
Magma Small Group (64 , 83) Order: 64 Genus: 33 Invariants: [2, 4, 8]	Magma Small Group (108 , 35) Order: 108 Genus: 64 Invariants: [3, 3, 12]
Magma Small Group (64 , 183) Order: 64 Genus: 29 Invariants: [2, 2, 16]	Magma Small Group (108 , 45) Order: 108 Genus: 64 Invariants: [3, 6, 6]
Magma Small Group (64 , 192) Order: 64 Genus: 41 Invariants: [2, 2, 4, 4]	Magma Small Group (112 , 37) Order: 112 Genus: 53 Invariants: [2, 2, 28]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (112 , 43)
Order: 112 Genus: 77 Invariants: [2, 2, 2, 14]

Magma Small Group (120 , 47)
Order: 120 Genus: 57 Invariants: [2, 2, 30]

Magma Small Group (125 , 5)
Order: 125 Genus: 76 Invariants: [5, 5, 5]

Magma Small Group (128 , 179)
Order: 128 Genus: 65 Invariants: [2, 8, 8]

Magma Small Group (128 , 456)
Order: 128 Genus: 81 Invariants: [4, 4, 8]

Magma Small Group (128 , 837)
Order: 128 Genus: 65 Invariants: [2, 4, 16]

Magma Small Group (128 , 988)
Order: 128 Genus: 61 Invariants: [2, 2, 32]

Magma Small Group (128 , 997)
Order: 128 Genus: 97 Invariants: [2, 4, 4, 4]

Magma Small Group (128 , 1601)
Order: 128 Genus: 97 Invariants: [2, 2, 4, 8]

Magma Small Group (128 , 2136)
Order: 128 Genus: 89 Invariants: [2, 2, 2, 16]

Magma Small Group (128 , 2150)
Order: 128 Genus: 113 Invariants: [2, 2, 2, 4, 4]

Magma Small Group (128 , 2301)
Order: 128 Genus: 113 Invariants: [2, 2, 2, 2, 8]

Magma Small Group (128 , 2319)
Order: 128 Genus: 129 Invariants: [2, 2, 2, 2, 4]

Magma Small Group (128 , 2328)
Order: 128 Genus: 129 Invariants: [2, 2, 2, 2, 2, 2]

Magma Small Group (135 , 5)
Order: 135 Genus: 82 Invariants: [3, 3, 15]

Magma Small Group (136 , 15)
Order: 136 Genus: 65 Invariants: [2, 2, 34]

Magma Small Group (144 , 47)
Order: 144 Genus: 69 Invariants: [2, 2, 36]

Magma Small Group (144 , 113)
Order: 144 Genus: 101 Invariants: [2, 2, 2, 18]

Magma Small Group (144 , 178)
Order: 144 Genus: 73 Invariants: [2, 6, 12]

Magma Small Group (144 , 197)
Order: 144 Genus: 109 Invariants: [2, 2, 6, 6]

Magma Small Group (152 , 12)
Order: 152 Genus: 73 Invariants: [2, 2, 38]

Magma Small Group (160 , 175)
Order: 160 Genus: 81 Invariants: [2, 4, 20]

Magma Small Group (160 , 190)
Order: 160 Genus: 77 Invariants: [2, 2, 40]

Magma Small Group (160 , 228)
Order: 160 Genus: 113 Invariants: [2, 2, 2, 20]

Magma Small Group (160 , 238)
Order: 160 Genus: 145 Invariants: [2, 2, 2, 2, 10]

Magma Small Group (162 , 47)
Order: 162 Genus: 100 Invariants: [3, 3, 18]

Magma Small Group (162 , 55)
Order: 162 Genus: 136 Invariants: [3, 3, 3, 6]

Magma Small Group (168 , 57)
Order: 168 Genus: 81 Invariants: [2, 2, 42]

Magma Small Group (176 , 37)
Order: 176 Genus: 85 Invariants: [2, 2, 44]

Magma Small Group (176 , 42)
Order: 176 Genus: 125 Invariants: [2, 2, 2, 22]

Magma Small Group (184 , 12)
Order: 184 Genus: 89 Invariants: [2, 2, 46]

Magma Small Group (189 , 13)
Order: 189 Genus: 118 Invariants: [3, 3, 21]

Magma Small Group (192 , 807)
Order: 192 Genus: 129 Invariants: [4, 4, 12]

Magma Small Group (192 , 835)
Order: 192 Genus: 97 Invariants: [2, 4, 24]

Magma Small Group (192 , 935)
Order: 192 Genus: 93 Invariants: [2, 2, 48]

Magma Small Group (192 , 1400)
Order: 192 Genus: 145 Invariants: [2, 2, 4, 12]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (192 , 1454)
Order: 192 Genus: 137 Invariants: [2, 2, 2, 24]

Magma Small Group (192 , 1530)
Order: 192 Genus: 177 Invariants: [2, 2, 2, 2, 12]

Magma Small Group (192 , 1543)
Order: 192 Genus: 209 Invariants: [2, 2, 2, 2, 2, 6]

Magma Small Group (200 , 14)
Order: 200 Genus: 97 Invariants: [2, 2, 50]

Magma Small Group (200 , 52)
Order: 200 Genus: 101 Invariants: [2, 10, 10]

Magma Small Group (208 , 45)
Order: 208 Genus: 101 Invariants: [2, 2, 52]

Magma Small Group (208 , 51)
Order: 208 Genus: 149 Invariants: [2, 2, 2, 26]

Magma Small Group (216 , 24)
Order: 216 Genus: 105 Invariants: [2, 2, 54]

Magma Small Group (216 , 85)
Order: 216 Genus: 136 Invariants: [3, 3, 24]

Magma Small Group (216 , 114)
Order: 216 Genus: 109 Invariants: [2, 6, 18]

Magma Small Group (216 , 150)
Order: 216 Genus: 145 Invariants: [3, 6, 12]

Magma Small Group (216 , 177)
Order: 216 Genus: 145 Invariants: [6, 6, 6]

Magma Small Group (224 , 149)
Order: 224 Genus: 113 Invariants: [2, 4, 28]

Magma Small Group (224 , 164)
Order: 224 Genus: 109 Invariants: [2, 2, 56]

Magma Small Group (224 , 189)
Order: 224 Genus: 161 Invariants: [2, 2, 2, 28]

Magma Small Group (224 , 197)
Order: 224 Genus: 209 Invariants: [2, 2, 2, 2, 14]

Magma Small Group (232 , 14)
Order: 232 Genus: 113 Invariants: [2, 2, 58]

Magma Small Group (240 , 185)
Order: 240 Genus: 117 Invariants: [2, 2, 60]

Magma Small Group (240 , 208)
Order: 240 Genus: 173 Invariants: [2, 2, 2, 30]

Magma Small Group (243 , 31)
Order: 243 Genus: 163 Invariants: [3, 9, 9]

Magma Small Group (243 , 48)
Order: 243 Genus: 154 Invariants: [3, 3, 27]

Magma Small Group (243 , 61)
Order: 243 Genus: 217 Invariants: [3, 3, 3, 9]

Magma Small Group (243 , 67)
Order: 243 Genus: 244 Invariants: [3, 3, 3, 3, 3]

Magma Small Group (248 , 12)
Order: 248 Genus: 121 Invariants: [2, 2, 62]

Magma Small Group (250 , 15)
Order: 250 Genus: 176 Invariants: [5, 5, 10]

Magma Small Group (256 , 826)
Order: 256 Genus: 177 Invariants: [4, 8, 8]

Magma Small Group (256 , 4384)
Order: 256 Genus: 129 Invariants: [2, 8, 16]

Magma Small Group (256 , 5525)
Order: 256 Genus: 177 Invariants: [4, 4, 16]

Magma Small Group (256 , 6534)
Order: 256 Genus: 129 Invariants: [2, 4, 32]

Magma Small Group (256 , 6723)
Order: 256 Genus: 125 Invariants: [2, 2, 64]

Magma Small Group (256 , 6732)
Order: 256 Genus: 225 Invariants: [4, 4, 4, 4]

Magma Small Group (256 , 10298)
Order: 256 Genus: 193 Invariants: [2, 2, 8, 8]

Magma Small Group (256 , 13313)
Order: 256 Genus: 225 Invariants: [2, 4, 4, 8]

Magma Small Group (256 , 26308)
Order: 256 Genus: 193 Invariants: [2, 2, 4, 16]

Magma Small Group (256 , 26959)
Order: 256 Genus: 185 Invariants: [2, 2, 2, 32]

Magma Small Group (256 , 26973)
Order: 256 Genus: 257 Invariants: [2, 2, 4, 4, 4]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (256 , 53038) Order: 256 Genus: 257 Invariants: [2, 2, 2, 4, 8]	Magma Small Group (288 , 1045) Order: 288 Genus: 289 Invariants: [2, 2, 2, 6, 6]
Magma Small Group (256 , 55608) Order: 256 Genus: 241 Invariants: [2, 2, 2, 2, 16]	Magma Small Group (296 , 14) Order: 296 Genus: 145 Invariants: [2, 2, 74]
Magma Small Group (256 , 55626) Order: 256 Genus: 289 Invariants: [2, 2, 2, 2, 4, 4]	Magma Small Group (297 , 5) Order: 297 Genus: 190 Invariants: [3, 3, 33]
Magma Small Group (256 , 56059) Order: 256 Genus: 289 Invariants: [2, 2, 2, 2, 2, 8]	Magma Small Group (304 , 37) Order: 304 Genus: 149 Invariants: [2, 2, 76]
Magma Small Group (256 , 56082) Order: 256 Genus: 321 Invariants: [2, 2, 2, 2, 2, 4]	Magma Small Group (304 , 42) Order: 304 Genus: 221 Invariants: [2, 2, 2, 38]
Magma Small Group (256 , 56092) Order: 256 Genus: 321 Invariants: [2, 2, 2, 2, 2, 2, 2]	Magma Small Group (312 , 61) Order: 312 Genus: 153 Invariants: [2, 2, 78]
Magma Small Group (264 , 39) Order: 264 Genus: 129 Invariants: [2, 2, 66]	Magma Small Group (320 , 875) Order: 320 Genus: 225 Invariants: [4, 4, 20]
Magma Small Group (270 , 30) Order: 270 Genus: 172 Invariants: [3, 3, 30]	Magma Small Group (320 , 903) Order: 320 Genus: 161 Invariants: [2, 4, 40]
Magma Small Group (272 , 46) Order: 272 Genus: 133 Invariants: [2, 2, 68]	Magma Small Group (320 , 1003) Order: 320 Genus: 157 Invariants: [2, 2, 80]
Magma Small Group (272 , 54) Order: 272 Genus: 197 Invariants: [2, 2, 2, 34]	Magma Small Group (320 , 1513) Order: 320 Genus: 241 Invariants: [2, 2, 4, 20]
Magma Small Group (280 , 40) Order: 280 Genus: 137 Invariants: [2, 2, 70]	Magma Small Group (320 , 1567) Order: 320 Genus: 233 Invariants: [2, 2, 2, 40]
Magma Small Group (288 , 164) Order: 288 Genus: 145 Invariants: [2, 4, 36]	Magma Small Group (320 , 1628) Order: 320 Genus: 305 Invariants: [2, 2, 2, 2, 20]
Magma Small Group (288 , 179) Order: 288 Genus: 141 Invariants: [2, 2, 72]	Magma Small Group (320 , 1640) Order: 320 Genus: 369 Invariants: [2, 2, 2, 2, 2, 10]
Magma Small Group (288 , 367) Order: 288 Genus: 209 Invariants: [2, 2, 2, 36]	Magma Small Group (324 , 105) Order: 324 Genus: 208 Invariants: [3, 3, 36]
Magma Small Group (288 , 811) Order: 288 Genus: 145 Invariants: [2, 12, 12]	Magma Small Group (324 , 151) Order: 324 Genus: 217 Invariants: [3, 6, 18]
Magma Small Group (288 , 826) Order: 288 Genus: 145 Invariants: [2, 6, 24]	Magma Small Group (324 , 159) Order: 324 Genus: 298 Invariants: [3, 3, 3, 12]
Magma Small Group (288 , 840) Order: 288 Genus: 273 Invariants: [2, 2, 2, 2, 18]	Magma Small Group (324 , 176) Order: 324 Genus: 298 Invariants: [3, 3, 6, 6]
Magma Small Group (288 , 1018) Order: 288 Genus: 217 Invariants: [2, 2, 6, 12]	Magma Small Group (328 , 15) Order: 328 Genus: 161 Invariants: [2, 2, 82]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (336 , 204) Order: 336 Genus: 165 Invariants: [2, 2, 84]	Magma Small Group (384 , 5396) Order: 384 Genus: 193 Invariants: [2, 4, 48]
Magma Small Group (336 , 228) Order: 336 Genus: 245 Invariants: [2, 2, 2, 42]	Magma Small Group (384 , 5547) Order: 384 Genus: 189 Invariants: [2, 2, 96]
Magma Small Group (343 , 5) Order: 343 Genus: 246 Invariants: [7, 7, 7]	Magma Small Group (384 , 16705) Order: 384 Genus: 353 Invariants: [2, 4, 4, 12]
Magma Small Group (344 , 12) Order: 344 Genus: 169 Invariants: [2, 2, 86]	Magma Small Group (384 , 17309) Order: 384 Genus: 289 Invariants: [2, 2, 4, 24]
Magma Small Group (351 , 14) Order: 351 Genus: 226 Invariants: [3, 3, 39]	Magma Small Group (384 , 17844) Order: 384 Genus: 281 Invariants: [2, 2, 2, 48]
Magma Small Group (352 , 149) Order: 352 Genus: 177 Invariants: [2, 4, 44]	Magma Small Group (384 , 19878) Order: 384 Genus: 385 Invariants: [2, 2, 2, 4, 12]
Magma Small Group (352 , 164) Order: 352 Genus: 173 Invariants: [2, 2, 88]	Magma Small Group (384 , 20029) Order: 384 Genus: 369 Invariants: [2, 2, 2, 2, 24]
Magma Small Group (352 , 188) Order: 352 Genus: 257 Invariants: [2, 2, 2, 44]	Magma Small Group (384 , 20153) Order: 384 Genus: 449 Invariants: [2, 2, 2, 2, 2, 12]
Magma Small Group (352 , 195) Order: 352 Genus: 337 Invariants: [2, 2, 2, 2, 22]	Magma Small Group (384 , 20169) Order: 384 Genus: 513 Invariants: [2, 2, 2, 2, 2, 6]
Magma Small Group (360 , 50) Order: 360 Genus: 177 Invariants: [2, 2, 90]	Magma Small Group (392 , 13) Order: 392 Genus: 193 Invariants: [2, 2, 98]
Magma Small Group (360 , 162) Order: 360 Genus: 181 Invariants: [2, 6, 30]	Magma Small Group (392 , 44) Order: 392 Genus: 197 Invariants: [2, 14, 14]
Magma Small Group (368 , 37) Order: 368 Genus: 181 Invariants: [2, 2, 92]	Magma Small Group (400 , 45) Order: 400 Genus: 197 Invariants: [2, 2, 100]
Magma Small Group (368 , 42) Order: 368 Genus: 269 Invariants: [2, 2, 2, 46]	Magma Small Group (400 , 55) Order: 400 Genus: 293 Invariants: [2, 2, 2, 50]
Magma Small Group (375 , 7) Order: 375 Genus: 276 Invariants: [5, 5, 15]	Magma Small Group (400 , 201) Order: 400 Genus: 201 Invariants: [2, 10, 20]
Magma Small Group (376 , 12) Order: 376 Genus: 185 Invariants: [2, 2, 94]	Magma Small Group (400 , 221) Order: 400 Genus: 301 Invariants: [2, 2, 10, 10]
Magma Small Group (378 , 60) Order: 378 Genus: 244 Invariants: [3, 3, 42]	Magma Small Group (405 , 11) Order: 405 Genus: 262 Invariants: [3, 3, 45]
Magma Small Group (384 , 4738) Order: 384 Genus: 193 Invariants: [2, 8, 24]	Magma Small Group (405 , 16) Order: 405 Genus: 379 Invariants: [3, 3, 3, 15]
Magma Small Group (384 , 5015) Order: 384 Genus: 273 Invariants: [4, 4, 24]	Magma Small Group (408 , 46) Order: 408 Genus: 201 Invariants: [2, 2, 102]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (416 , 175)
Order: 416 Genus: 209 Invariants: [2, 4, 52]

Magma Small Group (416 , 190)
Order: 416 Genus: 205 Invariants: [2, 2, 104]

Magma Small Group (416 , 227)
Order: 416 Genus: 305 Invariants: [2, 2, 2, 52]

Magma Small Group (416 , 235)
Order: 416 Genus: 401 Invariants: [2, 2, 2, 2, 26]

Magma Small Group (424 , 14)
Order: 424 Genus: 209 Invariants: [2, 2, 106]

Magma Small Group (432 , 53)
Order: 432 Genus: 213 Invariants: [2, 2, 108]

Magma Small Group (432 , 228)
Order: 432 Genus: 317 Invariants: [2, 2, 2, 54]

Magma Small Group (432 , 232)
Order: 432 Genus: 280 Invariants: [3, 3, 48]

Magma Small Group (432 , 400)
Order: 432 Genus: 217 Invariants: [2, 6, 36]

Magma Small Group (432 , 512)
Order: 432 Genus: 289 Invariants: [3, 12, 12]

Magma Small Group (432 , 515)
Order: 432 Genus: 289 Invariants: [3, 6, 24]

Magma Small Group (432 , 562)
Order: 432 Genus: 325 Invariants: [2, 2, 6, 18]

Magma Small Group (432 , 730)
Order: 432 Genus: 325 Invariants: [6, 6, 12]

Magma Small Group (432 , 775)
Order: 432 Genus: 397 Invariants: [2, 6, 6, 6]

Magma Small Group (440 , 51)
Order: 440 Genus: 217 Invariants: [2, 2, 110]

Magma Small Group (448 , 782)
Order: 448 Genus: 321 Invariants: [4, 4, 28]

Magma Small Group (448 , 810)
Order: 448 Genus: 225 Invariants: [2, 4, 56]

Magma Small Group (448 , 910)
Order: 448 Genus: 221 Invariants: [2, 2, 112]

Magma Small Group (448 , 1294)
Order: 448 Genus: 337 Invariants: [2, 2, 4, 28]

Magma Small Group (448 , 1348)
Order: 448 Genus: 329 Invariants: [2, 2, 2, 56]

Magma Small Group (448 , 1385)
Order: 448 Genus: 433 Invariants: [2, 2, 2, 2, 28]

Magma Small Group (448 , 1396)
Order: 448 Genus: 529 Invariants: [2, 2, 2, 2, 2, 14]

Magma Small Group (456 , 54)
Order: 456 Genus: 225 Invariants: [2, 2, 114]

Magma Small Group (459 , 5)
Order: 459 Genus: 298 Invariants: [3, 3, 51]

Magma Small Group (464 , 45)
Order: 464 Genus: 229 Invariants: [2, 2, 116]

Magma Small Group (464 , 51)
Order: 464 Genus: 341 Invariants: [2, 2, 2, 58]

Magma Small Group (472 , 12)
Order: 472 Genus: 233 Invariants: [2, 2, 118]

Magma Small Group (480 , 919)
Order: 480 Genus: 241 Invariants: [2, 4, 60]

Magma Small Group (480 , 934)
Order: 480 Genus: 237 Invariants: [2, 2, 120]

Magma Small Group (480 , 1180)
Order: 480 Genus: 353 Invariants: [2, 2, 2, 60]

Magma Small Group (480 , 1213)
Order: 480 Genus: 465 Invariants: [2, 2, 2, 2, 30]

Magma Small Group (486 , 190)
Order: 486 Genus: 325 Invariants: [3, 9, 18]

Magma Small Group (486 , 207)
Order: 486 Genus: 316 Invariants: [3, 3, 54]

Magma Small Group (486 , 250)
Order: 486 Genus: 460 Invariants: [3, 3, 3, 18]

Magma Small Group (486 , 261)
Order: 486 Genus: 568 Invariants: [3, 3, 3, 3, 6]

Magma Small Group (488 , 14)
Order: 488 Genus: 241 Invariants: [2, 2, 122]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (496 , 37) Order: 496 Genus: 245 Invariants: [2, 2, 124]	Magma Small Group (512 , 420501) Order: 512 Genus: 377 Invariants: [2, 2, 2, 64]
Magma Small Group (496 , 42) Order: 496 Genus: 365 Invariants: [2, 2, 2, 62]	Magma Small Group (512 , 420515) Order: 512 Genus: 577 Invariants: [2, 4, 4, 4, 4]
Magma Small Group (500 , 40) Order: 500 Genus: 376 Invariants: [5, 5, 20]	Magma Small Group (512 , 6249624) Order: 512 Genus: 513 Invariants: [2, 2, 2, 8, 8]
Magma Small Group (500 , 56) Order: 500 Genus: 376 Invariants: [5, 10, 10]	Magma Small Group (512 , 6276915) Order: 512 Genus: 577 Invariants: [2, 2, 4, 4, 8]
Magma Small Group (504 , 66) Order: 504 Genus: 249 Invariants: [2, 2, 126]	Magma Small Group (512 , 7529607) Order: 512 Genus: 513 Invariants: [2, 2, 2, 4, 16]
Magma Small Group (504 , 202) Order: 504 Genus: 253 Invariants: [2, 6, 42]	Magma Small Group (512 , 7532375) Order: 512 Genus: 497 Invariants: [2, 2, 2, 2, 32]
Magma Small Group (512 , 2046) Order: 512 Genus: 385 Invariants: [8, 8, 8]	Magma Small Group (512 , 7532393) Order: 512 Genus: 641 Invariants: [2, 2, 2, 4, 4, 4]
Magma Small Group (512 , 29399) Order: 512 Genus: 257 Invariants: [2, 16, 16]	Magma Small Group (512 , 10481222) Order: 512 Genus: 641 Invariants: [2, 2, 2, 2, 4, 8]
Magma Small Group (512 , 33712) Order: 512 Genus: 385 Invariants: [4, 8, 16]	Magma Small Group (512 , 10493039) Order: 512 Genus: 609 Invariants: [2, 2, 2, 2, 2, 16]
Magma Small Group (512 , 56686) Order: 512 Genus: 257 Invariants: [2, 8, 32]	Magma Small Group (512 , 10493062) Order: 512 Genus: 705 Invariants: [2, 2, 2, 2, 2, 4, 4]
Magma Small Group (512 , 58942) Order: 512 Genus: 369 Invariants: [4, 4, 32]	Magma Small Group (512 , 10494174) Order: 512 Genus: 705 Invariants: [2, 2, 2, 2, 2, 2, 8]
Magma Small Group (512 , 60616) Order: 512 Genus: 257 Invariants: [2, 4, 64]	Magma Small Group (512 , 10494201) Order: 512 Genus: 769 Invariants: [2, 2, 2, 2, 2, 2, 4]
Magma Small Group (512 , 60895) Order: 512 Genus: 253 Invariants: [2, 2, 128]	Magma Small Group (512 , 10494213) Order: 512 Genus: 769 Invariants: [2, 2, 2, 2, 2, 2, 2, 2]
Magma Small Group (512 , 87977) Order: 512 Genus: 481 Invariants: [2, 4, 8, 8]	Magma Small Group (513 , 15) Order: 513 Genus: 334 Invariants: [3, 3, 57]
Magma Small Group (512 , 260300) Order: 512 Genus: 513 Invariants: [4, 4, 4, 8]	Magma Small Group (520 , 49) Order: 520 Genus: 257 Invariants: [2, 2, 130]
Magma Small Group (512 , 387089) Order: 512 Genus: 385 Invariants: [2, 2, 8, 16]	Magma Small Group (528 , 156) Order: 528 Genus: 261 Invariants: [2, 2, 132]
Magma Small Group (512 , 400018) Order: 512 Genus: 481 Invariants: [2, 4, 4, 16]	Magma Small Group (528 , 170) Order: 528 Genus: 389 Invariants: [2, 2, 2, 66]
Magma Small Group (512 , 419735) Order: 512 Genus: 385 Invariants: [2, 2, 4, 32]	Magma Small Group (536 , 12) Order: 536 Genus: 265 Invariants: [2, 2, 134]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (540 , 87) Order: 540 Genus: 352 Invariants: [3, 3, 60]	Magma Small Group (576 , 4857) Order: 576 Genus: 289 Invariants: [2, 12, 24]
Magma Small Group (540 , 119) Order: 540 Genus: 361 Invariants: [3, 6, 30]	Magma Small Group (576 , 4957) Order: 576 Genus: 289 Invariants: [2, 6, 48]
Magma Small Group (544 , 176) Order: 544 Genus: 273 Invariants: [2, 4, 68]	Magma Small Group (576 , 5028) Order: 576 Genus: 561 Invariants: [2, 2, 2, 2, 36]
Magma Small Group (544 , 191) Order: 544 Genus: 269 Invariants: [2, 2, 136]	Magma Small Group (576 , 8194) Order: 576 Genus: 433 Invariants: [2, 2, 12, 12]
Magma Small Group (544 , 236) Order: 544 Genus: 401 Invariants: [2, 2, 2, 68]	Magma Small Group (576 , 8248) Order: 576 Genus: 433 Invariants: [2, 2, 6, 24]
Magma Small Group (544 , 246) Order: 544 Genus: 529 Invariants: [2, 2, 2, 2, 34]	Magma Small Group (576 , 8268) Order: 576 Genus: 689 Invariants: [2, 2, 2, 2, 2, 18]
Magma Small Group (552 , 39) Order: 552 Genus: 273 Invariants: [2, 2, 138]	Magma Small Group (576 , 8645) Order: 576 Genus: 577 Invariants: [2, 2, 2, 6, 12]
Magma Small Group (560 , 166) Order: 560 Genus: 277 Invariants: [2, 2, 140]	Magma Small Group (576 , 8681) Order: 576 Genus: 721 Invariants: [2, 2, 2, 2, 6, 6]
Magma Small Group (560 , 180) Order: 560 Genus: 413 Invariants: [2, 2, 2, 70]	Magma Small Group (584 , 15) Order: 584 Genus: 289 Invariants: [2, 2, 146]
Magma Small Group (567 , 44) Order: 567 Genus: 370 Invariants: [3, 3, 63]	Magma Small Group (592 , 45) Order: 592 Genus: 293 Invariants: [2, 2, 148]
Magma Small Group (567 , 49) Order: 567 Genus: 541 Invariants: [3, 3, 3, 21]	Magma Small Group (592 , 51) Order: 592 Genus: 437 Invariants: [2, 2, 2, 74]
Magma Small Group (568 , 12) Order: 568 Genus: 281 Invariants: [2, 2, 142]	Magma Small Group (594 , 30) Order: 594 Genus: 388 Invariants: [3, 3, 66]
Magma Small Group (576 , 810) Order: 576 Genus: 417 Invariants: [4, 4, 36]	Magma Small Group (600 , 44) Order: 600 Genus: 297 Invariants: [2, 2, 150]
Magma Small Group (576 , 838) Order: 576 Genus: 289 Invariants: [2, 4, 72]	Magma Small Group (600 , 205) Order: 600 Genus: 301 Invariants: [2, 10, 30]
Magma Small Group (576 , 938) Order: 576 Genus: 285 Invariants: [2, 2, 144]	Magma Small Group (608 , 149) Order: 608 Genus: 305 Invariants: [2, 4, 76]
Magma Small Group (576 , 1825) Order: 576 Genus: 433 Invariants: [2, 2, 4, 36]	Magma Small Group (608 , 164) Order: 608 Genus: 301 Invariants: [2, 2, 152]
Magma Small Group (576 , 1879) Order: 576 Genus: 425 Invariants: [2, 2, 2, 72]	Magma Small Group (608 , 188) Order: 608 Genus: 449 Invariants: [2, 2, 2, 76]
Magma Small Group (576 , 4829) Order: 576 Genus: 433 Invariants: [4, 12, 12]	Magma Small Group (608 , 195) Order: 608 Genus: 593 Invariants: [2, 2, 2, 2, 38]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (616 , 35)
Order: 616 Genus: 305 Invariants: [2, 2, 154]

Magma Small Group (621 , 5)
Order: 621 Genus: 406 Invariants: [3, 3, 69]

Magma Small Group (624 , 234)
Order: 624 Genus: 309 Invariants: [2, 2, 156]

Magma Small Group (624 , 260)
Order: 624 Genus: 461 Invariants: [2, 2, 2, 78]

Magma Small Group (625 , 11)
Order: 625 Genus: 476 Invariants: [5, 5, 25]

Magma Small Group (625 , 15)
Order: 625 Genus: 626 Invariants: [5, 5, 5, 5]

Magma Small Group (632 , 12)
Order: 632 Genus: 313 Invariants: [2, 2, 158]

Magma Small Group (640 , 5037)
Order: 640 Genus: 321 Invariants: [2, 8, 40]

Magma Small Group (640 , 5314)
Order: 640 Genus: 465 Invariants: [4, 4, 40]

Magma Small Group (640 , 5695)
Order: 640 Genus: 321 Invariants: [2, 4, 80]

Magma Small Group (640 , 5846)
Order: 640 Genus: 317 Invariants: [2, 2, 160]

Magma Small Group (640 , 17942)
Order: 640 Genus: 609 Invariants: [2, 4, 4, 20]

Magma Small Group (640 , 18546)
Order: 640 Genus: 481 Invariants: [2, 2, 4, 40]

Magma Small Group (640 , 19081)
Order: 640 Genus: 473 Invariants: [2, 2, 2, 80]

Magma Small Group (640 , 21285)
Order: 640 Genus: 641 Invariants: [2, 2, 2, 4, 20]

Magma Small Group (640 , 21436)
Order: 640 Genus: 625 Invariants: [2, 2, 2, 2, 40]

Magma Small Group (640 , 21527)
Order: 640 Genus: 769 Invariants: [2, 2, 2, 2, 2, 20]

Magma Small Group (640 , 21541)
Order: 640 Genus: 897 Invariants: [2, 2, 2, 2, 2, 10]

Magma Small Group (648 , 44)
Order: 648 Genus: 321 Invariants: [2, 2, 162]

Magma Small Group (648 , 247)
Order: 648 Genus: 424 Invariants: [3, 3, 72]

Magma Small Group (648 , 341)
Order: 648 Genus: 325 Invariants: [2, 18, 18]

Magma Small Group (648 , 344)
Order: 648 Genus: 325 Invariants: [2, 6, 54]

Magma Small Group (648 , 514)
Order: 648 Genus: 433 Invariants: [3, 6, 36]

Magma Small Group (648 , 530)
Order: 648 Genus: 622 Invariants: [3, 3, 3, 24]

Magma Small Group (648 , 637)
Order: 648 Genus: 505 Invariants: [6, 6, 18]

Magma Small Group (648 , 699)
Order: 648 Genus: 649 Invariants: [3, 3, 6, 12]

Magma Small Group (648 , 757)
Order: 648 Genus: 649 Invariants: [3, 6, 6, 6]

Magma Small Group (656 , 46)
Order: 656 Genus: 325 Invariants: [2, 2, 164]

Magma Small Group (656 , 53)
Order: 656 Genus: 485 Invariants: [2, 2, 2, 82]

Magma Small Group (664 , 12)
Order: 664 Genus: 329 Invariants: [2, 2, 166]

Magma Small Group (672 , 1019)
Order: 672 Genus: 337 Invariants: [2, 4, 84]

Magma Small Group (672 , 1034)
Order: 672 Genus: 333 Invariants: [2, 2, 168]

Magma Small Group (672 , 1248)
Order: 672 Genus: 497 Invariants: [2, 2, 2, 84]

Magma Small Group (672 , 1280)
Order: 672 Genus: 657 Invariants: [2, 2, 2, 2, 42]

Magma Small Group (675 , 7)
Order: 675 Genus: 442 Invariants: [3, 3, 75]

Magma Small Group (675 , 17)
Order: 675 Genus: 451 Invariants: [3, 15, 15]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (680 , 53)
Order: 680 Genus: 337 Invariants: [2, 2, 170]

Magma Small Group (686 , 15)
Order: 686 Genus: 540 Invariants: [7, 7, 14]

Magma Small Group (688 , 37)
Order: 688 Genus: 341 Invariants: [2, 2, 172]

Magma Small Group (688 , 42)
Order: 688 Genus: 509 Invariants: [2, 2, 2, 86]

Magma Small Group (696 , 44)
Order: 696 Genus: 345 Invariants: [2, 2, 174]

Magma Small Group (702 , 62)
Order: 702 Genus: 460 Invariants: [3, 3, 78]

Magma Small Group (704 , 780)
Order: 704 Genus: 513 Invariants: [4, 4, 44]

Magma Small Group (704 , 808)
Order: 704 Genus: 353 Invariants: [2, 4, 88]

Magma Small Group (704 , 908)
Order: 704 Genus: 349 Invariants: [2, 2, 176]

Magma Small Group (704 , 1291)
Order: 704 Genus: 529 Invariants: [2, 2, 4, 44]

Magma Small Group (704 , 1345)
Order: 704 Genus: 521 Invariants: [2, 2, 2, 88]

Magma Small Group (704 , 1379)
Order: 704 Genus: 689 Invariants: [2, 2, 2, 2, 44]

Magma Small Group (704 , 1387)
Order: 704 Genus: 849 Invariants: [2, 2, 2, 2, 2, 22]

Magma Small Group (712 , 15)
Order: 712 Genus: 353 Invariants: [2, 2, 178]

Magma Small Group (720 , 185)
Order: 720 Genus: 357 Invariants: [2, 2, 180]

Magma Small Group (720 , 408)
Order: 720 Genus: 533 Invariants: [2, 2, 2, 90]

Magma Small Group (720 , 759)
Order: 720 Genus: 361 Invariants: [2, 6, 60]

Magma Small Group (720 , 840)
Order: 720 Genus: 541 Invariants: [2, 2, 6, 30]

Magma Small Group (728 , 40)
Order: 728 Genus: 361 Invariants: [2, 2, 182]

Magma Small Group (729 , 102)
Order: 729 Genus: 568 Invariants: [9, 9, 9]

Magma Small Group (729 , 238)
Order: 729 Genus: 487 Invariants: [3, 9, 27]

Magma Small Group (729 , 391)
Order: 729 Genus: 478 Invariants: [3, 3, 81]

Magma Small Group (729 , 415)
Order: 729 Genus: 730 Invariants: [3, 3, 9, 9]

Magma Small Group (729 , 475)
Order: 729 Genus: 703 Invariants: [3, 3, 3, 27]

Magma Small Group (729 , 497)
Order: 729 Genus: 892 Invariants: [3, 3, 3, 3, 9]

Magma Small Group (729 , 504)
Order: 729 Genus: 973 Invariants: [3, 3, 3, 3, 3, 3]

Magma Small Group (736 , 149)
Order: 736 Genus: 369 Invariants: [2, 4, 92]

Magma Small Group (736 , 164)
Order: 736 Genus: 365 Invariants: [2, 2, 184]

Magma Small Group (736 , 188)
Order: 736 Genus: 545 Invariants: [2, 2, 2, 92]

Magma Small Group (736 , 195)
Order: 736 Genus: 721 Invariants: [2, 2, 2, 2, 46]

Magma Small Group (744 , 54)
Order: 744 Genus: 369 Invariants: [2, 2, 186]

Magma Small Group (750 , 39)
Order: 750 Genus: 576 Invariants: [5, 5, 30]

Magma Small Group (752 , 37)
Order: 752 Genus: 373 Invariants: [2, 2, 188]

Magma Small Group (752 , 42)
Order: 752 Genus: 557 Invariants: [2, 2, 2, 94]

Magma Small Group (756 , 149)
Order: 756 Genus: 496 Invariants: [3, 3, 84]

Magma Small Group (756 , 189)
Order: 756 Genus: 505 Invariants: [3, 6, 42]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (760 , 39)
Order: 760 Genus: 377 Invariants: [2, 2, 190]

Magma Small Group (768 , 826)
Order: 768 Genus: 577 Invariants: [4, 8, 24]

Magma Small Group (768 , 4384)
Order: 768 Genus: 385 Invariants: [2, 8, 48]

Magma Small Group (768 , 5525)
Order: 768 Genus: 561 Invariants: [4, 4, 48]

Magma Small Group (768 , 6534)
Order: 768 Genus: 385 Invariants: [2, 4, 96]

Magma Small Group (768 , 6723)
Order: 768 Genus: 381 Invariants: [2, 2, 192]

Magma Small Group (768 , 6732)
Order: 768 Genus: 769 Invariants: [4, 4, 4, 12]

Magma Small Group (768 , 10298)
Order: 768 Genus: 577 Invariants: [2, 2, 8, 24]

Magma Small Group (768 , 13313)
Order: 768 Genus: 737 Invariants: [2, 4, 4, 24]

Magma Small Group (768 , 26308)
Order: 768 Genus: 577 Invariants: [2, 2, 4, 48]

Magma Small Group (768 , 26959)
Order: 768 Genus: 569 Invariants: [2, 2, 2, 96]

Magma Small Group (768 , 26973)
Order: 768 Genus: 897 Invariants: [2, 2, 4, 4, 12]

Magma Small Group (768 , 53038)
Order: 768 Genus: 769 Invariants: [2, 2, 2, 4, 24]

Magma Small Group (768 , 55608)
Order: 768 Genus: 753 Invariants: [2, 2, 2, 2, 48]

Magma Small Group (768 , 55626)
Order: 768 Genus: 961 Invariants: [2, 2, 2, 2, 4, 12]

Magma Small Group (768 , 56059)
Order: 768 Genus: 929 Invariants: [2, 2, 2, 2, 2, 24]

Magma Small Group (768 , 56082)
Order: 768 Genus: 1089 Invariants: [2, 2, 2, 2, 2, 2, 12]

Magma Small Group (768 , 56092)
Order: 768 Genus: 1217 Invariants: [2, 2, 2, 2, 2, 2, 6]

Magma Small Group (776 , 15)
Order: 776 Genus: 385 Invariants: [2, 2, 194]

Magma Small Group (783 , 5)
Order: 783 Genus: 514 Invariants: [3, 3, 87]

Magma Small Group (784 , 37)
Order: 784 Genus: 389 Invariants: [2, 2, 196]

Magma Small Group (784 , 46)
Order: 784 Genus: 581 Invariants: [2, 2, 2, 98]

Magma Small Group (784 , 156)
Order: 784 Genus: 393 Invariants: [2, 14, 28]

Magma Small Group (784 , 172)
Order: 784 Genus: 589 Invariants: [2, 2, 14, 14]

Magma Small Group (792 , 45)
Order: 792 Genus: 393 Invariants: [2, 2, 198]

Magma Small Group (792 , 137)
Order: 792 Genus: 397 Invariants: [2, 6, 66]

Magma Small Group (800 , 175)
Order: 800 Genus: 401 Invariants: [2, 4, 100]

Magma Small Group (800 , 190)
Order: 800 Genus: 397 Invariants: [2, 2, 200]

Magma Small Group (800 , 231)
Order: 800 Genus: 593 Invariants: [2, 2, 2, 100]

Magma Small Group (800 , 387)
Order: 800 Genus: 785 Invariants: [2, 2, 2, 2, 50]

Magma Small Group (800 , 933)
Order: 800 Genus: 401 Invariants: [2, 20, 20]

Magma Small Group (800 , 948)
Order: 800 Genus: 401 Invariants: [2, 10, 40]

Magma Small Group (800 , 1185)
Order: 800 Genus: 601 Invariants: [2, 2, 10, 20]

Magma Small Group (800 , 1211)
Order: 800 Genus: 801 Invariants: [2, 2, 2, 10, 10]

Magma Small Group (808 , 14)
Order: 808 Genus: 401 Invariants: [2, 2, 202]

Magma Small Group (810 , 97)
Order: 810 Genus: 532 Invariants: [3, 3, 90]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (810 , 113)
Order: 810 Genus: 784 Invariants: [3, 3, 3, 30]

Magma Small Group (816 , 181)
Order: 816 Genus: 405 Invariants: [2, 2, 204]

Magma Small Group (816 , 205)
Order: 816 Genus: 605 Invariants: [2, 2, 2, 102]

Magma Small Group (824 , 12)
Order: 824 Genus: 409 Invariants: [2, 2, 206]

Magma Small Group (832 , 875)
Order: 832 Genus: 609 Invariants: [4, 4, 52]

Magma Small Group (832 , 903)
Order: 832 Genus: 417 Invariants: [2, 4, 104]

Magma Small Group (832 , 1003)
Order: 832 Genus: 413 Invariants: [2, 2, 208]

Magma Small Group (832 , 1512)
Order: 832 Genus: 625 Invariants: [2, 2, 4, 52]

Magma Small Group (832 , 1566)
Order: 832 Genus: 617 Invariants: [2, 2, 2, 104]

Magma Small Group (832 , 1621)
Order: 832 Genus: 817 Invariants: [2, 2, 2, 2, 52]

Magma Small Group (832 , 1630)
Order: 832 Genus: 1009 Invariants: [2, 2, 2, 2, 2, 26]

Magma Small Group (837 , 13)
Order: 837 Genus: 550 Invariants: [3, 3, 93]

Magma Small Group (840 , 186)
Order: 840 Genus: 417 Invariants: [2, 2, 210]

Magma Small Group (848 , 45)
Order: 848 Genus: 421 Invariants: [2, 2, 212]

Magma Small Group (848 , 51)
Order: 848 Genus: 629 Invariants: [2, 2, 2, 106]

Magma Small Group (856 , 12)
Order: 856 Genus: 425 Invariants: [2, 2, 214]

Magma Small Group (864 , 170)
Order: 864 Genus: 433 Invariants: [2, 4, 108]

Magma Small Group (864 , 185)
Order: 864 Genus: 429 Invariants: [2, 2, 216]

Magma Small Group (864 , 646)
Order: 864 Genus: 641 Invariants: [2, 2, 2, 108]

Magma Small Group (864 , 655)
Order: 864 Genus: 568 Invariants: [3, 3, 96]

Magma Small Group (864 , 1844)
Order: 864 Genus: 433 Invariants: [2, 12, 36]

Magma Small Group (864 , 1889)
Order: 864 Genus: 433 Invariants: [2, 6, 72]

Magma Small Group (864 , 1921)
Order: 864 Genus: 849 Invariants: [2, 2, 2, 2, 54]

Magma Small Group (864 , 2176)
Order: 864 Genus: 577 Invariants: [3, 12, 24]

Magma Small Group (864 , 2189)
Order: 864 Genus: 577 Invariants: [3, 6, 48]

Magma Small Group (864 , 2648)
Order: 864 Genus: 649 Invariants: [2, 2, 6, 36]

Magma Small Group (864 , 3962)
Order: 864 Genus: 685 Invariants: [6, 12, 12]

Magma Small Group (864 , 3977)
Order: 864 Genus: 685 Invariants: [6, 6, 24]

Magma Small Group (864 , 4050)
Order: 864 Genus: 865 Invariants: [2, 2, 2, 6, 18]

Magma Small Group (864 , 4655)
Order: 864 Genus: 865 Invariants: [2, 6, 6, 12]

Magma Small Group (864 , 4725)
Order: 864 Genus: 1009 Invariants: [2, 2, 6, 6, 6]

Magma Small Group (872 , 14)
Order: 872 Genus: 433 Invariants: [2, 2, 218]

Magma Small Group (875 , 5)
Order: 875 Genus: 676 Invariants: [5, 5, 35]

Magma Small Group (880 , 206)
Order: 880 Genus: 437 Invariants: [2, 2, 220]

Magma Small Group (880 , 221)
Order: 880 Genus: 653 Invariants: [2, 2, 2, 110]

Magma Small Group (888 , 61)
Order: 888 Genus: 441 Invariants: [2, 2, 222]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (891 , 11) Order: 891 Genus: 586 Invariants: [3, 3, 99]	Magma Small Group (928 , 175) Order: 928 Genus: 465 Invariants: [2, 4, 116]
Magma Small Group (891 , 15) Order: 891 Genus: 865 Invariants: [3, 3, 3, 33]	Magma Small Group (928 , 190) Order: 928 Genus: 461 Invariants: [2, 2, 232]
Magma Small Group (896 , 4682) Order: 896 Genus: 449 Invariants: [2, 8, 56]	Magma Small Group (928 , 227) Order: 928 Genus: 689 Invariants: [2, 2, 2, 116]
Magma Small Group (896 , 4959) Order: 896 Genus: 657 Invariants: [4, 4, 56]	Magma Small Group (928 , 235) Order: 928 Genus: 913 Invariants: [2, 2, 2, 2, 58]
Magma Small Group (896 , 5340) Order: 896 Genus: 449 Invariants: [2, 4, 112]	Magma Small Group (936 , 71) Order: 936 Genus: 465 Invariants: [2, 2, 234]
Magma Small Group (896 , 5491) Order: 896 Genus: 445 Invariants: [2, 2, 224]	Magma Small Group (936 , 222) Order: 936 Genus: 469 Invariants: [2, 6, 78]
Magma Small Group (896 , 16340) Order: 896 Genus: 865 Invariants: [2, 4, 4, 28]	Magma Small Group (944 , 37) Order: 944 Genus: 469 Invariants: [2, 2, 236]
Magma Small Group (896 , 16944) Order: 896 Genus: 673 Invariants: [2, 2, 4, 56]	Magma Small Group (944 , 42) Order: 944 Genus: 701 Invariants: [2, 2, 2, 118]
Magma Small Group (896 , 17479) Order: 896 Genus: 665 Invariants: [2, 2, 2, 112]	Magma Small Group (945 , 13) Order: 945 Genus: 622 Invariants: [3, 3, 105]
Magma Small Group (896 , 19136) Order: 896 Genus: 897 Invariants: [2, 2, 2, 4, 28]	Magma Small Group (952 , 42) Order: 952 Genus: 473 Invariants: [2, 2, 238]
Magma Small Group (896 , 19287) Order: 896 Genus: 881 Invariants: [2, 2, 2, 2, 56]	Magma Small Group (960 , 5544) Order: 960 Genus: 705 Invariants: [4, 4, 60]
Magma Small Group (896 , 19335) Order: 896 Genus: 1089 Invariants: [2, 2, 2, 2, 2, 28]	Magma Small Group (960 , 5572) Order: 960 Genus: 481 Invariants: [2, 4, 120]
Magma Small Group (896 , 19349) Order: 896 Genus: 1281 Invariants: [2, 2, 2, 2, 2, 14]	Magma Small Group (960 , 5672) Order: 960 Genus: 477 Invariants: [2, 2, 240]
Magma Small Group (904 , 15) Order: 904 Genus: 449 Invariants: [2, 2, 226]	Magma Small Group (960 , 10795) Order: 960 Genus: 721 Invariants: [2, 2, 4, 60]
Magma Small Group (912 , 203) Order: 912 Genus: 453 Invariants: [2, 2, 228]	Magma Small Group (960 , 10849) Order: 960 Genus: 713 Invariants: [2, 2, 2, 120]
Magma Small Group (912 , 222) Order: 912 Genus: 677 Invariants: [2, 2, 2, 114]	Magma Small Group (960 , 11348) Order: 960 Genus: 945 Invariants: [2, 2, 2, 2, 60]
Magma Small Group (918 , 30) Order: 918 Genus: 604 Invariants: [3, 3, 102]	Magma Small Group (960 , 11394) Order: 960 Genus: 1169 Invariants: [2, 2, 2, 2, 2, 30]
Magma Small Group (920 , 39) Order: 920 Genus: 457 Invariants: [2, 2, 230]	Magma Small Group (968 , 12) Order: 968 Genus: 481 Invariants: [2, 2, 242]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (968 , 42)
Order: 968 Genus: 485 Invariants: [2, 22, 22]

Magma Small Group (972 , 374)
Order: 972 Genus: 649 Invariants: [3, 9, 36]

Magma Small Group (972 , 391)
Order: 972 Genus: 640 Invariants: [3, 3, 108]

Magma Small Group (972 , 691)
Order: 972 Genus: 649 Invariants: [3, 18, 18]

Magma Small Group (972 , 708)
Order: 972 Genus: 649 Invariants: [3, 6, 54]

Magma Small Group (972 , 751)
Order: 972 Genus: 946 Invariants: [3, 3, 3, 36]

Magma Small Group (972 , 865)
Order: 972 Genus: 973 Invariants: [3, 3, 6, 18]

Magma Small Group (972 , 876)
Order: 972 Genus: 1216 Invariants: [3, 3, 3, 3, 12]

Magma Small Group (972 , 900)
Order: 972 Genus: 1216 Invariants: [3, 3, 3, 6, 6]

Magma Small Group (976 , 45)
Order: 976 Genus: 485 Invariants: [2, 2, 244]

Magma Small Group (976 , 51)
Order: 976 Genus: 725 Invariants: [2, 2, 2, 122]

Magma Small Group (984 , 46)
Order: 984 Genus: 489 Invariants: [2, 2, 246]

Magma Small Group (992 , 149)
Order: 992 Genus: 497 Invariants: [2, 4, 124]

Magma Small Group (992 , 164)
Order: 992 Genus: 493 Invariants: [2, 2, 248]

Magma Small Group (992 , 188)
Order: 992 Genus: 737 Invariants: [2, 2, 2, 124]

Magma Small Group (992 , 196)
Order: 992 Genus: 977 Invariants: [2, 2, 2, 2, 62]

Magma Small Group (999 , 15)
Order: 999 Genus: 658 Invariants: [3, 3, 111]

Magma Small Group (1000 , 14)
Order: 1000 Genus: 497 Invariants: [2, 2, 250]

Magma Small Group (1000 , 113)
Order: 1000 Genus: 501 Invariants: [2, 10, 50]

Magma Small Group (1000 , 119)
Order: 1000 Genus: 776 Invariants: [5, 5, 40]

Magma Small Group (1000 , 159)
Order: 1000 Genus: 801 Invariants: [5, 10, 20]

Magma Small Group (1000 , 199)
Order: 1000 Genus: 801 Invariants: [10, 10, 10]

Magma Small Group (1008 , 213)
Order: 1008 Genus: 501 Invariants: [2, 2, 252]

Magma Small Group (1008 , 516)
Order: 1008 Genus: 749 Invariants: [2, 2, 2, 126]

Magma Small Group (1008 , 876)
Order: 1008 Genus: 505 Invariants: [2, 6, 84]

Magma Small Group (1008 , 954)
Order: 1008 Genus: 757 Invariants: [2, 2, 6, 42]

Magma Small Group (1016 , 5)
Order: 1016 Genus: 505 Invariants: [2, 2, 254]

Magma 1024 Group (1024)
Order: 1024 Genus: 509 Invariants: [2, 2, 256]

Magma 1024 Group (1024)
Order: 1024 Genus: 513 Invariants: [2, 4, 128]

Magma 1024 Group (1024)
Order: 1024 Genus: 513 Invariants: [2, 8, 64]

Magma 1024 Group (1024)
Order: 1024 Genus: 513 Invariants: [2, 16, 32]

Magma 1024 Group (1024)
Order: 1024 Genus: 753 Invariants: [4, 4, 64]

Magma 1024 Group (1024)
Order: 1024 Genus: 769 Invariants: [4, 8, 32]

Magma 1024 Group (1024)
Order: 1024 Genus: 769 Invariants: [4, 16, 16]

Magma 1024 Group (1024)
Order: 1024 Genus: 833 Invariants: [8, 8, 16]

Magma 1024 Group (1024)
Order: 1024 Genus: 761 Invariants: [2, 2, 2, 128]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma 1024 Group (1024) Order: 1024 Genus: 769 Invariants: [2, 2, 4, 64]	Magma 1024 Group (1024) Order: 1024 Genus: 1409 Invariants: [2, 2, 2, 4, 4, 8]
Magma 1024 Group (1024) Order: 1024 Genus: 769 Invariants: [2, 2, 8, 32]	Magma 1024 Group (1024) Order: 1024 Genus: 1409 Invariants: [2, 2, 4, 4, 4, 4]
Magma 1024 Group (1024) Order: 1024 Genus: 769 Invariants: [2, 2, 16, 16]	Magma 1024 Group (1024) Order: 1024 Genus: 1473 Invariants:[2, 2, 2, 2, 2, 16]
Magma 1024 Group (1024) Order: 1024 Genus: 993 Invariants: [2, 4, 4, 32]	Magma 1024 Group (1024) Order: 1024 Genus: 1537 Invariants: [2, 2, 2, 2, 2, 4, 8]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [2, 4, 8, 16]	Magma 1024 Group (1024) Order: 1024 Genus: 1537 Invariants: [2, 2, 2, 2, 4, 4]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [2, 8, 8, 8]	Magma 1024 Group (1024) Order: 1024 Genus: 1665 Invariants:[2, 2, 2, 2, 2, 2, 8]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [4, 4, 4, 16]	Magma 1024 Group (1024) Order: 1024 Genus: 1665 Invariants:[2, 2, 2, 2, 2, 4, 4]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [4, 4, 8, 8]	Magma 1024 Group (1024) Order: 1024 Genus: 1793 Invariants:[2, 2, 2, 2, 2, 2, 4]
Magma 1024 Group (1024) Order: 1024 Genus: 1009 Invariants: [2, 2, 2, 2, 64]	Magma 1024 Group (1024) Order: 1024 Genus: 1793 Invariants:[2, 2, 2, 2, 2, 2, 2, 2]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [2, 2, 2, 4, 32]	Magma Small Group (1026 , 66) Order: 1026 Genus: 676 Invariants: [3, 3, 114]
Magma 1024 Group (1024) Order: 1024 Genus: 1025 Invariants: [2, 2, 2, 8, 16]	Magma Small Group (1029 , 5) Order: 1029 Genus: 834 Invariants: [7, 7, 21]
Magma 1024 Group (1024) Order: 1024 Genus: 1217 Invariants: [2, 2, 4, 4, 16]	Magma Small Group (1032 , 54) Order: 1032 Genus: 513 Invariants: [2, 2, 258]
Magma 1024 Group (1024) Order: 1024 Genus: 1217 Invariants: [2, 2, 4, 8, 8]	Magma Small Group (1040 , 212) Order: 1040 Genus: 517 Invariants: [2, 2, 260]
Magma 1024 Group (1024) Order: 1024 Genus: 1281 Invariants: [2, 4, 4, 4, 8]	Magma Small Group (1040 , 231) Order: 1040 Genus: 773 Invariants: [2, 2, 2, 130]
Magma 1024 Group (1024) Order: 1024 Genus: 1281 Invariants: [4, 4, 4, 4, 4]	Magma Small Group (1048 , 5) Order: 1048 Genus: 521 Invariants: [2, 2, 262]
Magma 1024 Group (1024) Order: 1024 Genus: 1249 Invariants: [2, 2, 2, 2, 2, 32]	Magma Small Group (1053 , 11) Order: 1053 Genus: 694 Invariants: [3, 3, 117]
Magma 1024 Group (1024) Order: 1024 Genus: 1281 Invariants: [2, 2, 2, 2, 4, 16]	Magma Small Group (1053 , 15) Order: 1053 Genus: 1027 Invariants: [3, 3, 3, 39]
Magma 1024 Group (1024) Order: 1024 Genus: 1281 Invariants: [2, 2, 2, 2, 8, 8]	Magma Small Group (1056 , 830) Order: 1056 Genus: 529 Invariants: [2, 4, 132]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1056 , 845)
Order: 1056 Genus: 525 Invariants: [2, 2, 264]

Magma Small Group (1056 , 1009)
Order: 1056 Genus: 785 Invariants: [2, 2, 2, 132]

Magma Small Group (1056 , 1028)
Order: 1056 Genus: 1041 Invariants: [2, 2, 2, 2, 66]

Magma Small Group (1064 , 35)
Order: 1064 Genus: 529 Invariants: [2, 2, 266]

Magma Small Group (1072 , 10)
Order: 1072 Genus: 533 Invariants: [2, 2, 268]

Magma Small Group (1072 , 14)
Order: 1072 Genus: 797 Invariants: [2, 2, 2, 134]

Magma Small Group (1080 , 62)
Order: 1080 Genus: 537 Invariants: [2, 2, 270]

Magma Small Group (1080 , 259)
Order: 1080 Genus: 712 Invariants: [3, 3, 120]

Magma Small Group (1080 , 360)
Order: 1080 Genus: 541 Invariants: [2, 6, 90]

Magma Small Group (1080 , 484)
Order: 1080 Genus: 721 Invariants: [3, 6, 60]

Magma Small Group (1080 , 583)
Order: 1080 Genus: 865 Invariants: [6, 6, 30]

Magma Small Group (1088 , 55)
Order: 1088 Genus: 801 Invariants: [4, 4, 68]

Magma Small Group (1088 , 83)
Order: 1088 Genus: 545 Invariants: [2, 4, 136]

Magma Small Group (1088 , 183)
Order: 1088 Genus: 541 Invariants: [2, 2, 272]

Magma Small Group (1088 , 192)
Order: 1088 Genus: 817 Invariants: [2, 2, 4, 68]

Magma Small Group (1088 , 246)
Order: 1088 Genus: 809 Invariants: [2, 2, 2, 136]

Magma Small Group (1088 , 260)
Order: 1088 Genus: 1073 Invariants: [2, 2, 2, 2, 68]

Magma Small Group (1088 , 267)
Order: 1088 Genus: 1329 Invariants: [2, 2, 2, 2, 34]

Magma Small Group (1096 , 5)
Order: 1096 Genus: 545 Invariants: [2, 2, 274]

Magma Small Group (1104 , 156)
Order: 1104 Genus: 549 Invariants: [2, 2, 276]

Magma Small Group (1104 , 170)
Order: 1104 Genus: 821 Invariants: [2, 2, 2, 138]

Magma Small Group (1107 , 5)
Order: 1107 Genus: 730 Invariants: [3, 3, 123]

Magma Small Group (1112 , 5)
Order: 1112 Genus: 553 Invariants: [2, 2, 278]

Magma Small Group (1120 , 890)
Order: 1120 Genus: 561 Invariants: [2, 4, 140]

Magma Small Group (1120 , 905)
Order: 1120 Genus: 557 Invariants: [2, 2, 280]

Magma Small Group (1120 , 1072)
Order: 1120 Genus: 833 Invariants: [2, 2, 2, 140]

Magma Small Group (1120 , 1092)
Order: 1120 Genus: 1105 Invariants: [2, 2, 2, 2, 70]

Magma Small Group (1125 , 12)
Order: 1125 Genus: 876 Invariants: [5, 5, 45]

Magma Small Group (1125 , 14)
Order: 1125 Genus: 901 Invariants: [5, 15, 15]

Magma Small Group (1128 , 39)
Order: 1128 Genus: 561 Invariants: [2, 2, 282]

Magma Small Group (1134 , 233)
Order: 1134 Genus: 748 Invariants: [3, 3, 126]

Magma Small Group (1134 , 254)
Order: 1134 Genus: 1108 Invariants: [3, 3, 3, 42]

Magma Small Group (1136 , 10)
Order: 1136 Genus: 565 Invariants: [2, 2, 284]

Magma Small Group (1136 , 14)
Order: 1136 Genus: 845 Invariants: [2, 2, 2, 142]

Magma Small Group (1144 , 39)
Order: 1144 Genus: 569 Invariants: [2, 2, 286]

Magma Small Group (1152 , 179)
Order: 1152 Genus: 577 Invariants: [2, 8, 72]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1152 , 456) Order: 1152 Genus: 849 Invariants: [4, 4, 72]	Magma Small Group (1152 , 4629) Order: 1152 Genus: 1153 Invariants: [2, 2, 2, 6, 24]
Magma Small Group (1152 , 837) Order: 1152 Genus: 577 Invariants: [2, 4, 144]	Magma Small Group (1152 , 4647) Order: 1152 Genus: 1441 Invariants: [2, 2, 2, 2, 6, 12]
Magma Small Group (1152 , 988) Order: 1152 Genus: 573 Invariants: [2, 2, 288]	Magma Small Group (1152 , 4656) Order: 1152 Genus: 1729 Invariants: [2, 2, 2, 2, 2, 6, 6]
Magma Small Group (1152 , 997) Order: 1152 Genus: 1121 Invariants: [2, 4, 4, 36]	Magma Small Group (1160 , 49) Order: 1160 Genus: 577 Invariants: [2, 2, 290]
Magma Small Group (1152 , 1601) Order: 1152 Genus: 865 Invariants: [2, 2, 4, 72]	Magma Small Group (1161 , 5) Order: 1161 Genus: 766 Invariants: [3, 3, 129]
Magma Small Group (1152 , 2136) Order: 1152 Genus: 857 Invariants: [2, 2, 2, 144]	Magma Small Group (1168 , 10) Order: 1168 Genus: 581 Invariants: [2, 2, 292]
Magma Small Group (1152 , 2150) Order: 1152 Genus: 1153 Invariants: [2, 2, 2, 4, 36]	Magma Small Group (1168 , 14) Order: 1168 Genus: 869 Invariants: [2, 2, 2, 146]
Magma Small Group (1152 , 2301) Order: 1152 Genus: 1137 Invariants: [2, 2, 2, 2, 72]	Magma Small Group (1176 , 56) Order: 1176 Genus: 585 Invariants: [2, 2, 294]
Magma Small Group (1152 , 2319) Order: 1152 Genus: 1409 Invariants: [2, 2, 2, 2, 2, 36]	Magma Small Group (1176 , 279) Order: 1176 Genus: 589 Invariants: [2, 14, 42]
Magma Small Group (1152 , 2328) Order: 1152 Genus: 1665 Invariants: [2, 2, 2, 2, 2, 2, 18]	Magma Small Group (1184 , 21) Order: 1184 Genus: 593 Invariants: [2, 4, 148]
Magma Small Group (1152 , 2507) Order: 1152 Genus: 577 Invariants: [2, 24, 24]	Magma Small Group (1184 , 36) Order: 1184 Genus: 589 Invariants: [2, 2, 296]
Magma Small Group (1152 , 2784) Order: 1152 Genus: 865 Invariants: [4, 12, 24]	Magma Small Group (1184 , 45) Order: 1184 Genus: 881 Invariants: [2, 2, 2, 148]
Magma Small Group (1152 , 3165) Order: 1152 Genus: 577 Invariants: [2, 12, 48]	Magma Small Group (1184 , 51) Order: 1184 Genus: 1169 Invariants: [2, 2, 2, 2, 74]
Magma Small Group (1152 , 3316) Order: 1152 Genus: 577 Invariants: [2, 6, 96]	Magma Small Group (1188 , 74) Order: 1188 Genus: 784 Invariants: [3, 3, 132]
Magma Small Group (1152 , 3325) Order: 1152 Genus: 1153 Invariants: [2, 4, 12, 12]	Magma Small Group (1188 , 99) Order: 1188 Genus: 793 Invariants: [3, 6, 66]
Magma Small Group (1152 , 3929) Order: 1152 Genus: 865 Invariants: [2, 2, 12, 24]	Magma Small Group (1192 , 5) Order: 1192 Genus: 593 Invariants: [2, 2, 298]
Magma Small Group (1152 , 4464) Order: 1152 Genus: 865 Invariants: [2, 2, 6, 48]	Magma Small Group (1200 , 179) Order: 1200 Genus: 597 Invariants: [2, 2, 300]
Magma Small Group (1152 , 4478) Order: 1152 Genus: 1153 Invariants: [2, 2, 2, 12, 12]	Magma Small Group (1200 , 209) Order: 1200 Genus: 893 Invariants: [2, 2, 2, 150]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1200 , 935) Order: 1200 Genus: 601 Invariants: [2, 10, 60]	Magma Small Group (1240 , 51) Order: 1240 Genus: 617 Invariants: [2, 2, 310]
Magma Small Group (1200 , 1040) Order: 1200 Genus: 901 Invariants: [2, 2, 10, 30]	Magma Small Group (1242 , 30) Order: 1242 Genus: 820 Invariants: [3, 3, 138]
Magma Small Group (1208 , 5) Order: 1208 Genus: 601 Invariants: [2, 2, 302]	Magma Small Group (1248 , 1128) Order: 1248 Genus: 625 Invariants: [2, 4, 156]
Magma Small Group (1215 , 31) Order: 1215 Genus: 811 Invariants: [3, 9, 45]	Magma Small Group (1248 , 1143) Order: 1248 Genus: 621 Invariants: [2, 2, 312]
Magma Small Group (1215 , 48) Order: 1215 Genus: 802 Invariants: [3, 3, 135]	Magma Small Group (1248 , 1427) Order: 1248 Genus: 929 Invariants: [2, 2, 2, 156]
Magma Small Group (1215 , 61) Order: 1215 Genus: 1189 Invariants: [3, 3, 3, 45]	Magma Small Group (1248 , 1460) Order: 1248 Genus: 1233 Invariants: [2, 2, 2, 2, 78]
Magma Small Group (1215 , 67) Order: 1215 Genus: 1540 Invariants: [3, 3, 3, 3, 15]	Magma Small Group (1250 , 11) Order: 1250 Genus: 976 Invariants: [5, 5, 50]
Magma Small Group (1216 , 55) Order: 1216 Genus: 897 Invariants: [4, 4, 76]	Magma Small Group (1250 , 15) Order: 1250 Genus: 1251 Invariants: [5, 5, 5, 10]
Magma Small Group (1216 , 83) Order: 1216 Genus: 609 Invariants: [2, 4, 152]	Magma Small Group (1256 , 5) Order: 1256 Genus: 625 Invariants: [2, 2, 314]
Magma Small Group (1216 , 183) Order: 1216 Genus: 605 Invariants: [2, 2, 304]	Magma Small Group (1264 , 10) Order: 1264 Genus: 629 Invariants: [2, 2, 316]
Magma Small Group (1216 , 192) Order: 1216 Genus: 913 Invariants: [2, 2, 4, 76]	Magma Small Group (1264 , 14) Order: 1264 Genus: 941 Invariants: [2, 2, 2, 158]
Magma Small Group (1216 , 246) Order: 1216 Genus: 905 Invariants: [2, 2, 2, 152]	Magma Small Group (1269 , 5) Order: 1269 Genus: 838 Invariants: [3, 3, 141]
Magma Small Group (1216 , 260) Order: 1216 Genus: 1201 Invariants: [2, 2, 2, 2, 76]	Magma Small Group (1272 , 44) Order: 1272 Genus: 633 Invariants: [2, 2, 318]
Magma Small Group (1216 , 267) Order: 1216 Genus: 1489 Invariants: [2, 2, 2, 2, 2, 38]	Magma Small Group (1280 , 826) Order: 1280 Genus: 961 Invariants: [4, 8, 40]
Magma Small Group (1224 , 52) Order: 1224 Genus: 609 Invariants: [2, 2, 306]	Magma Small Group (1280 , 4384) Order: 1280 Genus: 641 Invariants: [2, 8, 80]
Magma Small Group (1224 , 164) Order: 1224 Genus: 613 Invariants: [2, 6, 102]	Magma Small Group (1280 , 5525) Order: 1280 Genus: 945 Invariants: [4, 4, 80]
Magma Small Group (1232 , 143) Order: 1232 Genus: 613 Invariants: [2, 2, 308]	Magma Small Group (1280 , 6534) Order: 1280 Genus: 641 Invariants: [2, 4, 160]
Magma Small Group (1232 , 153) Order: 1232 Genus: 917 Invariants: [2, 2, 2, 154]	Magma Small Group (1280 , 6723) Order: 1280 Genus: 637 Invariants: [2, 2, 320]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1280 , 6732)
Order: 1280 Genus: 1281 Invariants: [4, 4, 4, 20]

Magma Small Group (1280 , 10298)
Order: 1280 Genus: 961 Invariants: [2, 2, 8, 40]

Magma Small Group (1280 , 13313)
Order: 1280 Genus: 1249 Invariants: [2, 4, 4, 40]

Magma Small Group (1280 , 26308)
Order: 1280 Genus: 961 Invariants: [2, 2, 4, 80]

Magma Small Group (1280 , 26959)
Order: 1280 Genus: 953 Invariants: [2, 2, 2, 160]

Magma Small Group (1280 , 26973)
Order: 1280 Genus: 1537 Invariants: [2, 2, 4, 4, 20]

Magma Small Group (1280 , 53038)
Order: 1280 Genus: 1281 Invariants: [2, 2, 2, 4, 40]

Magma Small Group (1280 , 55608)
Order: 1280 Genus: 1265 Invariants: [2, 2, 2, 2, 80]

Magma Small Group (1280 , 55626)
Order: 1280 Genus: 1601 Invariants: [2, 2, 2, 2, 4, 20]

Magma Small Group (1280 , 56059)
Order: 1280 Genus: 1569 Invariants: [2, 2, 2, 2, 2, 40]

Magma Small Group (1280 , 56082)
Order: 1280 Genus: 1857 Invariants: [2, 2, 2, 2, 2, 2, 20]

Magma Small Group (1280 , 56092)
Order: 1280 Genus: 2113 Invariants: [2, 2, 2, 2, 2, 2, 2, 10]

Magma Small Group (1288 , 35)
Order: 1288 Genus: 641 Invariants: [2, 2, 322]

Magma Small Group (1296 , 73)
Order: 1296 Genus: 645 Invariants: [2, 2, 324]

Magma Small Group (1296 , 634)
Order: 1296 Genus: 965 Invariants: [2, 2, 2, 162]

Magma Small Group (1296 , 650)
Order: 1296 Genus: 856 Invariants: [3, 3, 144]

Magma Small Group (1296 , 1201)
Order: 1296 Genus: 649 Invariants: [2, 18, 36]

Magma Small Group (1296 , 1204)
Order: 1296 Genus: 649 Invariants: [2, 6, 108]

Magma Small Group (1296 , 1747)
Order: 1296 Genus: 865 Invariants: [3, 12, 36]

Magma Small Group (1296 , 1759)
Order: 1296 Genus: 865 Invariants: [3, 6, 72]

Magma Small Group (1296 , 1921)
Order: 1296 Genus: 973 Invariants: [2, 2, 18, 18]

Magma Small Group (1296 , 1924)
Order: 1296 Genus: 973 Invariants: [2, 2, 6, 54]

Magma Small Group (1296 , 1934)
Order: 1296 Genus: 1270 Invariants: [3, 3, 3, 48]

Magma Small Group (1296 , 2689)
Order: 1296 Genus: 1045 Invariants: [6, 6, 36]

Magma Small Group (1296 , 2881)
Order: 1296 Genus: 1297 Invariants: [3, 3, 12, 12]

Magma Small Group (1296 , 2884)
Order: 1296 Genus: 1297 Invariants: [3, 3, 6, 24]

Magma Small Group (1296 , 3077)
Order: 1296 Genus: 1297 Invariants: [2, 6, 6, 18]

Magma Small Group (1296 , 3483)
Order: 1296 Genus: 1297 Invariants: [3, 6, 6, 12]

Magma Small Group (1296 , 3609)
Order: 1296 Genus: 1297 Invariants: [6, 6, 6, 6]

Magma Small Group (1304 , 5)
Order: 1304 Genus: 649 Invariants: [2, 2, 326]

Magma Small Group (1312 , 21)
Order: 1312 Genus: 657 Invariants: [2, 4, 164]

Magma Small Group (1312 , 36)
Order: 1312 Genus: 653 Invariants: [2, 2, 328]

Magma Small Group (1312 , 45)
Order: 1312 Genus: 977 Invariants: [2, 2, 2, 164]

Magma Small Group (1312 , 51)
Order: 1312 Genus: 1297 Invariants: [2, 2, 2, 2, 82]

Magma Small Group (1320 , 181)
Order: 1320 Genus: 657 Invariants: [2, 2, 330]

Magma Small Group (1323 , 17)
Order: 1323 Genus: 874 Invariants: [3, 3, 147]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1323 , 51)
Order: 1323 Genus: 883 Invariants: [3, 21, 21]

Magma Small Group (1328 , 10)
Order: 1328 Genus: 661 Invariants: [2, 2, 332]

Magma Small Group (1328 , 14)
Order: 1328 Genus: 989 Invariants: [2, 2, 2, 166]

Magma Small Group (1331 , 5)
Order: 1331 Genus: 1090 Invariants: [11, 11, 11]

Magma Small Group (1336 , 5)
Order: 1336 Genus: 665 Invariants: [2, 2, 334]

Magma Small Group (1344 , 6174)
Order: 1344 Genus: 993 Invariants: [4, 4, 84]

Magma Small Group (1344 , 6202)
Order: 1344 Genus: 673 Invariants: [2, 4, 168]

Magma Small Group (1344 , 6302)
Order: 1344 Genus: 669 Invariants: [2, 2, 336]

Magma Small Group (1344 , 11220)
Order: 1344 Genus: 1009 Invariants: [2, 2, 4, 84]

Magma Small Group (1344 , 11274)
Order: 1344 Genus: 1001 Invariants: [2, 2, 2, 168]

Magma Small Group (1344 , 11677)
Order: 1344 Genus: 1329 Invariants: [2, 2, 2, 2, 84]

Magma Small Group (1344 , 11720)
Order: 1344 Genus: 1649 Invariants: [2, 2, 2, 2, 2, 42]

Magma Small Group (1350 , 39)
Order: 1350 Genus: 892 Invariants: [3, 3, 150]

Magma Small Group (1350 , 112)
Order: 1350 Genus: 901 Invariants: [3, 15, 30]

Magma Small Group (1352 , 14)
Order: 1352 Genus: 673 Invariants: [2, 2, 338]

Magma Small Group (1352 , 52)
Order: 1352 Genus: 677 Invariants: [2, 26, 26]

Magma Small Group (1360 , 216)
Order: 1360 Genus: 677 Invariants: [2, 2, 340]

Magma Small Group (1360 , 245)
Order: 1360 Genus: 1013 Invariants: [2, 2, 2, 170]

Magma Small Group (1368 , 66)
Order: 1368 Genus: 681 Invariants: [2, 2, 342]

Magma Small Group (1368 , 211)
Order: 1368 Genus: 685 Invariants: [2, 6, 114]

Magma Small Group (1372 , 29)
Order: 1372 Genus: 1128 Invariants: [7, 7, 28]

Magma Small Group (1372 , 38)
Order: 1372 Genus: 1128 Invariants: [7, 14, 14]

Magma Small Group (1375 , 5)
Order: 1375 Genus: 1076 Invariants: [5, 5, 55]

Magma Small Group (1376 , 21)
Order: 1376 Genus: 689 Invariants: [2, 4, 172]

Magma Small Group (1376 , 36)
Order: 1376 Genus: 685 Invariants: [2, 2, 344]

Magma Small Group (1376 , 45)
Order: 1376 Genus: 1025 Invariants: [2, 2, 2, 172]

Magma Small Group (1376 , 51)
Order: 1376 Genus: 1361 Invariants: [2, 2, 2, 2, 86]

Magma Small Group (1377 , 11)
Order: 1377 Genus: 910 Invariants: [3, 3, 153]

Magma Small Group (1377 , 15)
Order: 1377 Genus: 1351 Invariants: [3, 3, 3, 51]

Magma Small Group (1384 , 5)
Order: 1384 Genus: 689 Invariants: [2, 2, 346]

Magma Small Group (1392 , 179)
Order: 1392 Genus: 693 Invariants: [2, 2, 348]

Magma Small Group (1392 , 198)
Order: 1392 Genus: 1037 Invariants: [2, 2, 2, 174]

Magma Small Group (1400 , 40)
Order: 1400 Genus: 697 Invariants: [2, 2, 350]

Magma Small Group (1400 , 153)
Order: 1400 Genus: 701 Invariants: [2, 10, 70]

Magma Small Group (1404 , 175)
Order: 1404 Genus: 928 Invariants: [3, 3, 156]

Magma Small Group (1404 , 227)
Order: 1404 Genus: 937 Invariants: [3, 6, 78]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1408 , 179) Order: 1408 Genus: 705 Invariants: [2, 8, 88]	Magma Small Group (1440 , 1676) Order: 1440 Genus: 1073 Invariants: [2, 2, 2, 180]
Magma Small Group (1408 , 456) Order: 1408 Genus: 1041 Invariants: [4, 4, 88]	Magma Small Group (1440 , 4540) Order: 1440 Genus: 721 Invariants: [2, 12, 60]
Magma Small Group (1408 , 837) Order: 1408 Genus: 705 Invariants: [2, 4, 176]	Magma Small Group (1440 , 4555) Order: 1440 Genus: 721 Invariants: [2, 6, 120]
Magma Small Group (1408 , 988) Order: 1408 Genus: 701 Invariants: [2, 2, 352]	Magma Small Group (1440 , 4589) Order: 1440 Genus: 1425 Invariants: [2, 2, 2, 2, 90]
Magma Small Group (1408 , 997) Order: 1408 Genus: 1377 Invariants: [2, 4, 4, 44]	Magma Small Group (1440 , 5835) Order: 1440 Genus: 1081 Invariants: [2, 2, 6, 60]
Magma Small Group (1408 , 1601) Order: 1408 Genus: 1057 Invariants: [2, 2, 4, 88]	Magma Small Group (1440 , 5958) Order: 1440 Genus: 1441 Invariants: [2, 2, 2, 6, 30]
Magma Small Group (1408 , 2136) Order: 1408 Genus: 1049 Invariants: [2, 2, 2, 176]	Magma Small Group (1448 , 5) Order: 1448 Genus: 721 Invariants: [2, 2, 362]
Magma Small Group (1408 , 2150) Order: 1408 Genus: 1409 Invariants: [2, 2, 2, 4, 44]	Magma Small Group (1456 , 166) Order: 1456 Genus: 725 Invariants: [2, 2, 364]
Magma Small Group (1408 , 2301) Order: 1408 Genus: 1393 Invariants: [2, 2, 2, 2, 88]	Magma Small Group (1456 , 179) Order: 1456 Genus: 1085 Invariants: [2, 2, 2, 182]
Magma Small Group (1408 , 2319) Order: 1408 Genus: 1729 Invariants: [2, 2, 2, 2, 2, 44]	Magma Small Group (1458 , 102) Order: 1458 Genus: 1216 Invariants: [9, 9, 18]
Magma Small Group (1408 , 2328) Order: 1408 Genus: 2049 Invariants: [2, 2, 2, 2, 2, 22]	Magma Small Group (1458 , 238) Order: 1458 Genus: 973 Invariants: [3, 9, 54]
Magma Small Group (1416 , 39) Order: 1416 Genus: 705 Invariants: [2, 2, 354]	Magma Small Group (1458 , 391) Order: 1458 Genus: 964 Invariants: [3, 3, 162]
Magma Small Group (1424 , 10) Order: 1424 Genus: 709 Invariants: [2, 2, 356]	Magma Small Group (1458 , 415) Order: 1458 Genus: 1459 Invariants: [3, 3, 9, 18]
Magma Small Group (1424 , 14) Order: 1424 Genus: 1061 Invariants: [2, 2, 2, 178]	Magma Small Group (1458 , 475) Order: 1458 Genus: 1432 Invariants: [3, 3, 3, 54]
Magma Small Group (1431 , 5) Order: 1431 Genus: 946 Invariants: [3, 3, 159]	Magma Small Group (1458 , 497) Order: 1458 Genus: 1864 Invariants: [3, 3, 3, 3, 18]
Magma Small Group (1432 , 5) Order: 1432 Genus: 713 Invariants: [2, 2, 358]	Magma Small Group (1458 , 504) Order: 1458 Genus: 2188 Invariants: [3, 3, 3, 3, 6]
Magma Small Group (1440 , 919) Order: 1440 Genus: 721 Invariants: [2, 4, 180]	Magma Small Group (1464 , 61) Order: 1464 Genus: 729 Invariants: [2, 2, 366]
Magma Small Group (1440 , 934) Order: 1440 Genus: 717 Invariants: [2, 2, 360]	Magma Small Group (1472 , 55) Order: 1472 Genus: 1089 Invariants: [4, 4, 92]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1472 , 83)
Order: 1472 Genus: 737 Invariants: [2, 4, 184]

Magma Small Group (1472 , 183)
Order: 1472 Genus: 733 Invariants: [2, 2, 368]

Magma Small Group (1472 , 192)
Order: 1472 Genus: 1105 Invariants: [2, 2, 4, 92]

Magma Small Group (1472 , 246)
Order: 1472 Genus: 1097 Invariants: [2, 2, 2, 184]

Magma Small Group (1472 , 260)
Order: 1472 Genus: 1457 Invariants: [2, 2, 2, 2, 92]

Magma Small Group (1472 , 267)
Order: 1472 Genus: 1809 Invariants: [2, 2, 2, 2, 2, 46]

Magma Small Group (1480 , 49)
Order: 1480 Genus: 737 Invariants: [2, 2, 370]

Magma Small Group (1485 , 10)
Order: 1485 Genus: 982 Invariants: [3, 3, 165]

Magma Small Group (1488 , 203)
Order: 1488 Genus: 741 Invariants: [2, 2, 372]

Magma Small Group (1488 , 222)
Order: 1488 Genus: 1109 Invariants: [2, 2, 2, 186]

Magma Small Group (1496 , 41)
Order: 1496 Genus: 745 Invariants: [2, 2, 374]

Magma Small Group (1500 , 111)
Order: 1500 Genus: 1176 Invariants: [5, 5, 60]

Magma Small Group (1500 , 174)
Order: 1500 Genus: 1201 Invariants: [5, 10, 30]

Magma Small Group (1504 , 21)
Order: 1504 Genus: 753 Invariants: [2, 4, 188]

Magma Small Group (1504 , 36)
Order: 1504 Genus: 749 Invariants: [2, 2, 376]

Magma Small Group (1504 , 45)
Order: 1504 Genus: 1121 Invariants: [2, 2, 2, 188]

Magma Small Group (1504 , 51)
Order: 1504 Genus: 1489 Invariants: [2, 2, 2, 2, 94]

Magma Small Group (1512 , 96)
Order: 1512 Genus: 753 Invariants: [2, 2, 378]

Magma Small Group (1512 , 436)
Order: 1512 Genus: 1000 Invariants: [3, 3, 168]

Magma Small Group (1512 , 596)
Order: 1512 Genus: 757 Invariants: [2, 6, 126]

Magma Small Group (1512 , 776)
Order: 1512 Genus: 1009 Invariants: [3, 6, 84]

Magma Small Group (1512 , 889)
Order: 1512 Genus: 1225 Invariants: [6, 6, 42]

Magma Small Group (1520 , 166)
Order: 1520 Genus: 757 Invariants: [2, 2, 380]

Magma Small Group (1520 , 178)
Order: 1520 Genus: 1133 Invariants: [2, 2, 2, 190]

Magma Small Group (1528 , 5)
Order: 1528 Genus: 761 Invariants: [2, 2, 382]

Magma Small Group (1536, 2046)
Order: 1536 Genus: 1281 Invariants: [8, 8, 24]

Magma Small Group (1536, 29399)
Order: 1536 Genus: 769 Invariants: [2, 16, 48]

Magma Small Group (1536, 33712)
Order: 1536 Genus: 1153 Invariants: [4, 8, 48]

Magma Small Group (1536, 56686)
Order: 1536 Genus: 769 Invariants: [2, 8, 96]

Magma Small Group (1536, 58942)
Order: 1536 Genus: 1137 Invariants: [4, 4, 96]

Magma Small Group (1536, 60616)
Order: 1536 Genus: 769 Invariants: [2, 4, 192]

Magma Small Group (1536, 60895)
Order: 1536 Genus: 765 Invariants: [2, 2, 384]

Magma Small Group (1536, 87977)
Order: 1536 Genus: 1537 Invariants: [2, 4, 8, 24]

Magma Small Group (1536, 260300)
Order: 1536 Genus: 1537 Invariants: [4, 4, 4, 24]

Magma Small Group (1536, 387089)
Order: 1536 Genus: 1153 Invariants: [2, 2, 8, 48]

Magma Small Group (1536, 400018)
Order: 1536 Genus: 1505 Invariants: [2, 4, 4, 48]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1536, 419735) Order: 1536 Genus: 1153 Invariants: [2, 2, 4, 96]	Magma Small Group (1552 , 14) Order: 1552 Genus: 1157 Invariants: [2, 2, 2, 194]
Magma Small Group (1536, 420501) Order: 1536 Genus: 1145 Invariants: [2, 2, 2, 192]	Magma Small Group (1560 , 221) Order: 1560 Genus: 777 Invariants: [2, 2, 390]
Magma Small Group (1536, 420515) Order: 1536 Genus: 1985 Invariants: [2, 4, 4, 4, 12]	Magma Small Group (1566 , 30) Order: 1566 Genus: 1036 Invariants: [3, 3, 174]
Magma Small Group (1536, 6249624) Order: 1536 Genus: 1537 Invariants: [2, 2, 2, 8, 24]	Magma Small Group (1568 , 149) Order: 1568 Genus: 785 Invariants: [2, 4, 196]
Magma Small Group (1536, 6276915) Order: 1536 Genus: 1857 Invariants: [2, 2, 4, 4, 24]	Magma Small Group (1568 , 164) Order: 1568 Genus: 781 Invariants: [2, 2, 392]
Magma Small Group (1536, 7529607) Order: 1536 Genus: 1537 Invariants: [2, 2, 2, 4, 48]	Magma Small Group (1568 , 192) Order: 1568 Genus: 1169 Invariants: [2, 2, 2, 196]
Magma Small Group (1536, 7532375) Order: 1536 Genus: 1521 Invariants: [2, 2, 2, 2, 96]	Magma Small Group (1568 , 343) Order: 1568 Genus: 1553 Invariants: [2, 2, 2, 2, 98]
Magma Small Group (1536, 7532393) Order: 1536 Genus: 2177 Invariants: [2, 2, 2, 4, 4, 12]	Magma Small Group (1568 , 760) Order: 1568 Genus: 785 Invariants: [2, 28, 28]
Magma Small Group (1536, 10481222) Order: 1536 Genus: 1921 Invariants: [2, 2, 2, 2, 4, 24]	Magma Small Group (1568 , 775) Order: 1568 Genus: 785 Invariants: [2, 14, 56]
Magma Small Group (1536, 10493039) Order: 1536 Genus: 1889 Invariants: [2, 2, 2, 2, 2, 48]	Magma Small Group (1568 , 909) Order: 1568 Genus: 1177 Invariants: [2, 2, 14, 28]
Magma Small Group (1536, 10493062) Order: 1536 Genus: 2305 Invariants: [2, 2, 2, 2, 2, 4, 12]	Magma Small Group (1568 , 928) Order: 1568 Genus: 1569 Invariants: [2, 2, 2, 14, 14]
Magma Small Group (1536, 10494174) Order: 1536 Genus: 2241 Invariants: [2, 2, 2, 2, 2, 2, 24]	Magma Small Group (1576 , 5) Order: 1576 Genus: 785 Invariants: [2, 2, 394]
Magma Small Group (1536, 10494201) Order: 1536 Genus: 2561 Invariants: [2, 2, 2, 2, 2, 2, 12]	Magma Small Group (1584 , 162) Order: 1584 Genus: 789 Invariants: [2, 2, 396]
Magma Small Group (1536, 10494213) Order: 1536 Genus: 2817 Invariants: [2, 2, 2, 2, 2, 2, 2, 6]	Magma Small Group (1584 , 374) Order: 1584 Genus: 1181 Invariants: [2, 2, 2, 198]
Magma Small Group (1539 , 11) Order: 1539 Genus: 1018 Invariants: [3, 3, 171]	Magma Small Group (1584 , 648) Order: 1584 Genus: 793 Invariants: [2, 6, 132]
Magma Small Group (1539 , 15) Order: 1539 Genus: 1513 Invariants: [3, 3, 3, 57]	Magma Small Group (1584 , 697) Order: 1584 Genus: 1189 Invariants: [2, 2, 6, 66]
Magma Small Group (1544 , 5) Order: 1544 Genus: 769 Invariants: [2, 2, 386]	Magma Small Group (1592 , 5) Order: 1592 Genus: 793 Invariants: [2, 2, 398]
Magma Small Group (1552 , 10) Order: 1552 Genus: 773 Invariants: [2, 2, 388]	Magma Small Group (1593 , 5) Order: 1593 Genus: 1054 Invariants: [3, 3, 177]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1600 , 875)
Order: 1600 Genus: 1185 Invariants: [4, 4, 100]

Magma Small Group (1600 , 903)
Order: 1600 Genus: 801 Invariants: [2, 4, 200]

Magma Small Group (1600 , 1003)
Order: 1600 Genus: 797 Invariants: [2, 2, 400]

Magma Small Group (1600 , 1516)
Order: 1600 Genus: 1201 Invariants: [2, 2, 4, 100]

Magma Small Group (1600 , 1570)
Order: 1600 Genus: 1193 Invariants: [2, 2, 2, 200]

Magma Small Group (1600 , 2054)
Order: 1600 Genus: 1585 Invariants: [2, 2, 2, 2, 100]

Magma Small Group (1600 , 5463)
Order: 1600 Genus: 1201 Invariants: [4, 20, 20]

Magma Small Group (1600 , 5491)
Order: 1600 Genus: 801 Invariants: [2, 20, 40]

Magma Small Group (1600 , 5591)
Order: 1600 Genus: 801 Invariants: [2, 10, 80]

Magma Small Group (1600 , 5605)
Order: 1600 Genus: 1969 Invariants: [2, 2, 2, 2, 2, 50]

Magma Small Group (1600 , 9721)
Order: 1600 Genus: 1201 Invariants: [2, 2, 20, 20]

Magma Small Group (1600 , 9775)
Order: 1600 Genus: 1201 Invariants: [2, 2, 10, 40]

Magma Small Group (1600 , 10247)
Order: 1600 Genus: 1601 Invariants: [2, 2, 2, 10, 20]

Magma Small Group (1600 , 10281)
Order: 1600 Genus: 2001 Invariants: [2, 2, 2, 2, 10, 10]

Magma Small Group (1608 , 54)
Order: 1608 Genus: 801 Invariants: [2, 2, 402]

Magma Small Group (1616 , 10)
Order: 1616 Genus: 805 Invariants: [2, 2, 404]

Magma Small Group (1616 , 14)
Order: 1616 Genus: 1205 Invariants: [2, 2, 2, 202]

Magma Small Group (1620 , 258)
Order: 1620 Genus: 1072 Invariants: [3, 3, 180]

Magma Small Group (1620 , 401)
Order: 1620 Genus: 1081 Invariants: [3, 6, 90]

Magma Small Group (1620 , 417)
Order: 1620 Genus: 1594 Invariants: [3, 3, 3, 60]

Magma Small Group (1620 , 477)
Order: 1620 Genus: 1621 Invariants: [3, 3, 6, 30]

Magma Small Group (1624 , 56)
Order: 1624 Genus: 809 Invariants: [2, 2, 406]

Magma Small Group (1625 , 5)
Order: 1625 Genus: 1276 Invariants: [5, 5, 65]

Magma Small Group (1632 , 915)
Order: 1632 Genus: 817 Invariants: [2, 4, 204]

Magma Small Group (1632 , 930)
Order: 1632 Genus: 813 Invariants: [2, 2, 408]

Magma Small Group (1632 , 1180)
Order: 1632 Genus: 1217 Invariants: [2, 2, 2, 204]

Magma Small Group (1632 , 1213)
Order: 1632 Genus: 1617 Invariants: [2, 2, 2, 2, 102]

Magma Small Group (1640 , 68)
Order: 1640 Genus: 817 Invariants: [2, 2, 410]

Magma Small Group (1647 , 5)
Order: 1647 Genus: 1090 Invariants: [3, 3, 183]

Magma Small Group (1648 , 10)
Order: 1648 Genus: 821 Invariants: [2, 2, 412]

Magma Small Group (1648 , 14)
Order: 1648 Genus: 1229 Invariants: [2, 2, 2, 206]

Magma Small Group (1656 , 45)
Order: 1656 Genus: 825 Invariants: [2, 2, 414]

Magma Small Group (1656 , 137)
Order: 1656 Genus: 829 Invariants: [2, 6, 138]

Magma Small Group (1664 , 179)
Order: 1664 Genus: 833 Invariants: [2, 8, 104]

Magma Small Group (1664 , 456)
Order: 1664 Genus: 1233 Invariants: [4, 4, 104]

Magma Small Group (1664 , 837)
Order: 1664 Genus: 833 Invariants: [2, 4, 208]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1664 , 988) Order: 1664 Genus: 829 Invariants: [2, 2, 416]	Magma Small Group (1701 , 48) Order: 1701 Genus: 1126 Invariants: [3, 3, 189]
Magma Small Group (1664 , 997) Order: 1664 Genus: 1633 Invariants: [2, 4, 4, 52]	Magma Small Group (1701 , 61) Order: 1701 Genus: 1675 Invariants: [3, 3, 3, 63]
Magma Small Group (1664 , 1601) Order: 1664 Genus: 1249 Invariants: [2, 2, 4, 104]	Magma Small Group (1701 , 67) Order: 1701 Genus: 2188 Invariants: [3, 3, 3, 3, 21]
Magma Small Group (1664 , 2136) Order: 1664 Genus: 1241 Invariants: [2, 2, 2, 208]	Magma Small Group (1704 , 39) Order: 1704 Genus: 849 Invariants: [2, 2, 426]
Magma Small Group (1664 , 2150) Order: 1664 Genus: 1665 Invariants: [2, 2, 2, 4, 52]	Magma Small Group (1712 , 10) Order: 1712 Genus: 853 Invariants: [2, 2, 428]
Magma Small Group (1664 , 2301) Order: 1664 Genus: 1649 Invariants: [2, 2, 2, 2, 104]	Magma Small Group (1712 , 14) Order: 1712 Genus: 1277 Invariants: [2, 2, 2, 214]
Magma Small Group (1664 , 2319) Order: 1664 Genus: 2049 Invariants: [2, 2, 2, 2, 2, 52]	Magma Small Group (1715 , 5) Order: 1715 Genus: 1422 Invariants: [7, 7, 35]
Magma Small Group (1664 , 2328) Order: 1664 Genus: 2433 Invariants: [2, 2, 2, 2, 2, 2, 26]	Magma Small Group (1720 , 39) Order: 1720 Genus: 857 Invariants: [2, 2, 430]
Magma Small Group (1672 , 34) Order: 1672 Genus: 833 Invariants: [2, 2, 418]	Magma Small Group (1728 , 816) Order: 1728 Genus: 1281 Invariants: [4, 4, 108]
Magma Small Group (1674 , 60) Order: 1674 Genus: 1108 Invariants: [3, 3, 186]	Magma Small Group (1728 , 844) Order: 1728 Genus: 865 Invariants: [2, 4, 216]
Magma Small Group (1680 , 920) Order: 1680 Genus: 837 Invariants: [2, 2, 420]	Magma Small Group (1728 , 944) Order: 1728 Genus: 861 Invariants: [2, 2, 432]
Magma Small Group (1680 , 1005) Order: 1680 Genus: 1253 Invariants: [2, 2, 2, 210]	Magma Small Group (1728 , 2642) Order: 1728 Genus: 1297 Invariants: [2, 2, 4, 108]
Magma Small Group (1688 , 5) Order: 1688 Genus: 841 Invariants: [2, 2, 422]	Magma Small Group (1728 , 2696) Order: 1728 Genus: 1289 Invariants: [2, 2, 2, 216]
Magma Small Group (1696 , 21) Order: 1696 Genus: 849 Invariants: [2, 4, 212]	Magma Small Group (1728 , 2713) Order: 1728 Genus: 1144 Invariants: [3, 3, 192]
Magma Small Group (1696 , 36) Order: 1696 Genus: 845 Invariants: [2, 2, 424]	Magma Small Group (1728 , 10943) Order: 1728 Genus: 1297 Invariants: [4, 12, 36]
Magma Small Group (1696 , 45) Order: 1696 Genus: 1265 Invariants: [2, 2, 2, 212]	Magma Small Group (1728 , 11027) Order: 1728 Genus: 865 Invariants: [2, 12, 72]
Magma Small Group (1696 , 51) Order: 1696 Genus: 1681 Invariants: [2, 2, 2, 2, 106]	Magma Small Group (1728 , 11327) Order: 1728 Genus: 865 Invariants: [2, 6, 144]
Magma Small Group (1701 , 31) Order: 1701 Genus: 1135 Invariants: [3, 9, 63]	Magma Small Group (1728 , 11416) Order: 1728 Genus: 1713 Invariants: [2, 2, 2, 2, 108]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1728 , 12177) Order: 1728 Genus: 1153 Invariants: [3, 24, 24]	Magma Small Group (1750 , 30) Order: 1750 Genus: 1376 Invariants: [5, 5, 70]
Magma Small Group (1728 , 12201) Order: 1728 Genus: 1153 Invariants: [3, 12, 48]	Magma Small Group (1752 , 64) Order: 1752 Genus: 873 Invariants: [2, 2, 438]
Magma Small Group (1728 , 12225) Order: 1728 Genus: 1153 Invariants: [3, 6, 96]	Magma Small Group (1755 , 14) Order: 1755 Genus: 1162 Invariants: [3, 3, 195]
Magma Small Group (1728 , 20578) Order: 1728 Genus: 1297 Invariants: [2, 2, 12, 36]	Magma Small Group (1760 , 1062) Order: 1760 Genus: 881 Invariants: [2, 4, 220]
Magma Small Group (1728 , 20740) Order: 1728 Genus: 1297 Invariants: [2, 2, 6, 72]	Magma Small Group (1760 , 1077) Order: 1760 Genus: 877 Invariants: [2, 2, 440]
Magma Small Group (1728 , 20788) Order: 1728 Genus: 2129 Invariants: [2, 2, 2, 2, 54]	Magma Small Group (1760 , 1264) Order: 1760 Genus: 1313 Invariants: [2, 2, 2, 220]
Magma Small Group (1728 , 29951) Order: 1728 Genus: 1441 Invariants: [12, 12, 12]	Magma Small Group (1760 , 1285) Order: 1760 Genus: 1745 Invariants: [2, 2, 2, 2, 110]
Magma Small Group (1728 , 29979) Order: 1728 Genus: 1441 Invariants: [6, 12, 24]	Magma Small Group (1768 , 53) Order: 1768 Genus: 881 Invariants: [2, 2, 442]
Magma Small Group (1728 , 30079) Order: 1728 Genus: 1405 Invariants: [6, 6, 48]	Magma Small Group (1776 , 234) Order: 1776 Genus: 885 Invariants: [2, 2, 444]
Magma Small Group (1728 , 31074) Order: 1728 Genus: 1729 Invariants: [2, 2, 2, 6, 36]	Magma Small Group (1776 , 260) Order: 1776 Genus: 1325 Invariants: [2, 2, 2, 222]
Magma Small Group (1728 , 46029) Order: 1728 Genus: 1729 Invariants: [2, 6, 12, 12]	Magma Small Group (1782 , 97) Order: 1782 Genus: 1180 Invariants: [3, 3, 198]
Magma Small Group (1728 , 46083) Order: 1728 Genus: 1729 Invariants: [2, 6, 6, 24]	Magma Small Group (1782 , 110) Order: 1782 Genus: 1756 Invariants: [3, 3, 3, 66]
Magma Small Group (1728 , 46187) Order: 1728 Genus: 2161 Invariants: [2, 2, 2, 2, 6, 18]	Magma Small Group (1784 , 5) Order: 1784 Genus: 889 Invariants: [2, 2, 446]
Magma Small Group (1728 , 47833) Order: 1728 Genus: 2161 Invariants: [2, 2, 6, 6, 12]	Magma Small Group (1792 , 826) Order: 1792 Genus: 1345 Invariants: [4, 8, 56]
Magma Small Group (1728 , 47937) Order: 1728 Genus: 2449 Invariants: [2, 2, 2, 6, 6, 6]	Magma Small Group (1792 , 4384) Order: 1792 Genus: 897 Invariants: [2, 8, 112]
Magma Small Group (1736 , 35) Order: 1736 Genus: 865 Invariants: [2, 2, 434]	Magma Small Group (1792 , 5525) Order: 1792 Genus: 1329 Invariants: [4, 4, 112]
Magma Small Group (1744 , 10) Order: 1744 Genus: 869 Invariants: [2, 2, 436]	Magma Small Group (1792 , 6534) Order: 1792 Genus: 897 Invariants: [2, 4, 224]
Magma Small Group (1744 , 14) Order: 1744 Genus: 1301 Invariants: [2, 2, 2, 218]	Magma Small Group (1792 , 6723) Order: 1792 Genus: 893 Invariants: [2, 2, 448]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1792, 6732) Order: 1792 Genus: 1793 Invariants: [4, 4, 4, 28]	Magma Small Group (1809 , 5) Order: 1809 Genus: 1198 Invariants: [3, 3, 201]
Magma Small Group (1792, 10298) Order: 1792 Genus: 1345 Invariants: [2, 2, 8, 56]	Magma Small Group (1816 , 5) Order: 1816 Genus: 905 Invariants: [2, 2, 454]
Magma Small Group (1792, 13313) Order: 1792 Genus: 1761 Invariants: [2, 4, 4, 56]	Magma Small Group (1824 , 1019) Order: 1824 Genus: 913 Invariants: [2, 4, 228]
Magma Small Group (1792, 26308) Order: 1792 Genus: 1345 Invariants: [2, 2, 4, 112]	Magma Small Group (1824 , 1034) Order: 1824 Genus: 909 Invariants: [2, 2, 456]
Magma Small Group (1792, 26959) Order: 1792 Genus: 1337 Invariants: [2, 2, 2, 224]	Magma Small Group (1824 , 1239) Order: 1824 Genus: 1361 Invariants: [2, 2, 2, 228]
Magma Small Group (1792, 26973) Order: 1792 Genus: 2177 Invariants: [2, 2, 4, 4, 28]	Magma Small Group (1824 , 1264) Order: 1824 Genus: 1809 Invariants: [2, 2, 2, 2, 114]
Magma Small Group (1792, 53038) Order: 1792 Genus: 1793 Invariants: [2, 2, 2, 4, 56]	Magma Small Group (1832 , 5) Order: 1832 Genus: 913 Invariants: [2, 2, 458]
Magma Small Group (1792, 55608) Order: 1792 Genus: 1777 Invariants: [2, 2, 2, 2, 112]	Magma Small Group (1836 , 86) Order: 1836 Genus: 1216 Invariants: [3, 3, 204]
Magma Small Group (1792, 55626) Order: 1792 Genus: 2241 Invariants: [2, 2, 2, 2, 4, 28]	Magma Small Group (1836 , 117) Order: 1836 Genus: 1225 Invariants: [3, 6, 102]
Magma Small Group (1792, 56059) Order: 1792 Genus: 2209 Invariants: [2, 2, 2, 2, 2, 56]	Magma Small Group (1840 , 166) Order: 1840 Genus: 917 Invariants: [2, 2, 460]
Magma Small Group (1792, 56082) Order: 1792 Genus: 2625 Invariants: [2, 2, 2, 2, 2, 28]	Magma Small Group (1840 , 178) Order: 1840 Genus: 1373 Invariants: [2, 2, 2, 230]
Magma Small Group (1792, 56092) Order: 1792 Genus: 3009 Invariants: [2, 2, 2, 2, 2, 2, 14]	Magma Small Group (1848 , 162) Order: 1848 Genus: 921 Invariants: [2, 2, 462]
Magma Small Group (1800 , 50) Order: 1800 Genus: 897 Invariants: [2, 2, 450]	Magma Small Group (1856 , 55) Order: 1856 Genus: 1377 Invariants: [4, 4, 116]
Magma Small Group (1800 , 254) Order: 1800 Genus: 901 Invariants: [2, 6, 150]	Magma Small Group (1856 , 83) Order: 1856 Genus: 929 Invariants: [2, 4, 232]
Magma Small Group (1800 , 327) Order: 1800 Genus: 901 Invariants: [2, 10, 90]	Magma Small Group (1856 , 183) Order: 1856 Genus: 925 Invariants: [2, 2, 464]
Magma Small Group (1800 , 749) Order: 1800 Genus: 901 Invariants: [2, 30, 30]	Magma Small Group (1856 , 192) Order: 1856 Genus: 1393 Invariants: [2, 2, 4, 116]
Magma Small Group (1808 , 10) Order: 1808 Genus: 901 Invariants: [2, 2, 452]	Magma Small Group (1856 , 246) Order: 1856 Genus: 1385 Invariants: [2, 2, 2, 232]
Magma Small Group (1808 , 14) Order: 1808 Genus: 1349 Invariants: [2, 2, 2, 226]	Magma Small Group (1856 , 260) Order: 1856 Genus: 1841 Invariants: [2, 2, 2, 2, 116]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1856 , 267)
Order: 1856 Genus: 2289 Invariants: [2, 2, 2, 2, 2, 58]

Magma Small Group (1863 , 11)
Order: 1863 Genus: 1234 Invariants: [3, 3, 207]

Magma Small Group (1863 , 15)
Order: 1863 Genus: 1837 Invariants: [3, 3, 3, 69]

Magma Small Group (1864 , 5)
Order: 1864 Genus: 929 Invariants: [2, 2, 466]

Magma Small Group (1872 , 244)
Order: 1872 Genus: 933 Invariants: [2, 2, 468]

Magma Small Group (1872 , 557)
Order: 1872 Genus: 1397 Invariants: [2, 2, 2, 234]

Magma Small Group (1872 , 1001)
Order: 1872 Genus: 937 Invariants: [2, 6, 156]

Magma Small Group (1872 , 1096)
Order: 1872 Genus: 1405 Invariants: [2, 2, 6, 78]

Magma Small Group (1875 , 11)
Order: 1875 Genus: 1476 Invariants: [5, 5, 75]

Magma Small Group (1875 , 15)
Order: 1875 Genus: 1876 Invariants: [5, 5, 5, 15]

Magma Small Group (1880 , 39)
Order: 1880 Genus: 937 Invariants: [2, 2, 470]

Magma Small Group (1888 , 21)
Order: 1888 Genus: 945 Invariants: [2, 4, 236]

Magma Small Group (1888 , 36)
Order: 1888 Genus: 941 Invariants: [2, 2, 472]

Magma Small Group (1888 , 45)
Order: 1888 Genus: 1409 Invariants: [2, 2, 2, 236]

Magma Small Group (1888 , 51)
Order: 1888 Genus: 1873 Invariants: [2, 2, 2, 2, 118]

Magma Small Group (1890 , 120)
Order: 1890 Genus: 1252 Invariants: [3, 3, 210]

Magma Small Group (1896 , 54)
Order: 1896 Genus: 945 Invariants: [2, 2, 474]

Magma Small Group (1904 , 168)
Order: 1904 Genus: 949 Invariants: [2, 2, 476]

Magma Small Group (1904 , 186)
Order: 1904 Genus: 1421 Invariants: [2, 2, 2, 238]

Magma Small Group (1912 , 5)
Order: 1912 Genus: 953 Invariants: [2, 2, 478]

Magma Small Group (1917 , 5)
Order: 1917 Genus: 1270 Invariants: [3, 3, 213]

Magma Small Group (1920 , 179)
Order: 1920 Genus: 961 Invariants: [2, 8, 120]

Magma Small Group (1920 , 456)
Order: 1920 Genus: 1425 Invariants: [4, 4, 120]

Magma Small Group (1920 , 837)
Order: 1920 Genus: 961 Invariants: [2, 4, 240]

Magma Small Group (1920 , 988)
Order: 1920 Genus: 957 Invariants: [2, 2, 480]

Magma Small Group (1920 , 997)
Order: 1920 Genus: 1889 Invariants: [2, 4, 4, 60]

Magma Small Group (1920 , 1601)
Order: 1920 Genus: 1441 Invariants: [2, 2, 4, 120]

Magma Small Group (1920 , 2136)
Order: 1920 Genus: 1433 Invariants: [2, 2, 2, 240]

Magma Small Group (1920 , 2150)
Order: 1920 Genus: 1921 Invariants: [2, 2, 2, 4, 60]

Magma Small Group (1920 , 2301)
Order: 1920 Genus: 1905 Invariants: [2, 2, 2, 2, 120]

Magma Small Group (1920 , 2319)
Order: 1920 Genus: 2369 Invariants: [2, 2, 2, 2, 2, 60]

Magma Small Group (1920 , 2328)
Order: 1920 Genus: 2817 Invariants: [2, 2, 2, 2, 2, 2, 30]

Magma Small Group (1928 , 5)
Order: 1928 Genus: 961 Invariants: [2, 2, 482]

Magma Small Group (1936 , 37)
Order: 1936 Genus: 965 Invariants: [2, 2, 484]

Magma Small Group (1936 , 42)
Order: 1936 Genus: 1445 Invariants: [2, 2, 2, 242]

Magma Small Group (1936 , 155)
Order: 1936 Genus: 969 Invariants: [2, 22, 44]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (1936 , 167) Order: 1936 Genus: 1453 Invariants: [2, 2, 22, 22]	Magma Small Group (1952 , 45) Order: 1952 Genus: 1457 Invariants: [2, 2, 2, 244]
Magma Small Group (1944 , 103) Order: 1944 Genus: 969 Invariants: [2, 2, 486]	Magma Small Group (1952 , 51) Order: 1952 Genus: 1937 Invariants: [2, 2, 2, 2, 122]
Magma Small Group (1944 , 772) Order: 1944 Genus: 1297 Invariants: [3, 9, 72]	Magma Small Group (1960 , 40) Order: 1960 Genus: 977 Invariants: [2, 2, 490]
Magma Small Group (1944 , 789) Order: 1944 Genus: 1288 Invariants: [3, 3, 216]	Magma Small Group (1960 , 144) Order: 1960 Genus: 981 Invariants: [2, 14, 70]
Magma Small Group (1944 , 1095) Order: 1944 Genus: 973 Invariants: [2, 18, 54]	Magma Small Group (1968 , 181) Order: 1968 Genus: 981 Invariants: [2, 2, 492]
Magma Small Group (1944 , 1108) Order: 1944 Genus: 973 Invariants: [2, 6, 162]	Magma Small Group (1968 , 203) Order: 1968 Genus: 1469 Invariants: [2, 2, 2, 246]
Magma Small Group (1944 , 2163) Order: 1944 Genus: 1297 Invariants: [3, 18, 36]	Magma Small Group (1971 , 5) Order: 1971 Genus: 1306 Invariants: [3, 3, 219]
Magma Small Group (1944 , 2180) Order: 1944 Genus: 1297 Invariants: [3, 6, 108]	Magma Small Group (1976 , 39) Order: 1976 Genus: 985 Invariants: [2, 2, 494]
Magma Small Group (1944 , 2283) Order: 1944 Genus: 1918 Invariants: [3, 3, 3, 72]	Magma Small Group (1984 , 55) Order: 1984 Genus: 1473 Invariants: [4, 4, 124]
Magma Small Group (1944 , 2946) Order: 1944 Genus: 1621 Invariants: [6, 18, 18]	Magma Small Group (1984 , 83) Order: 1984 Genus: 993 Invariants: [2, 4, 248]
Magma Small Group (1944 , 2963) Order: 1944 Genus: 1585 Invariants: [6, 6, 54]	Magma Small Group (1984 , 183) Order: 1984 Genus: 989 Invariants: [2, 2, 496]
Magma Small Group (1944 , 3416) Order: 1944 Genus: 1945 Invariants: [3, 3, 6, 36]	Magma Small Group (1984 , 192) Order: 1984 Genus: 1489 Invariants: [2, 2, 4, 124]
Magma Small Group (1944 , 3439) Order: 1944 Genus: 2512 Invariants: [3, 3, 3, 3, 24]	Magma Small Group (1984 , 246) Order: 1984 Genus: 1481 Invariants: [2, 2, 2, 248]
Magma Small Group (1944 , 3776) Order: 1944 Genus: 1945 Invariants: [3, 6, 6, 18]	Magma Small Group (1984 , 260) Order: 1984 Genus: 1969 Invariants: [2, 2, 2, 2, 124]
Magma Small Group (1944 , 3871) Order: 1944 Genus: 2593 Invariants: [3, 3, 3, 6, 12]	Magma Small Group (1984 , 267) Order: 1984 Genus: 2449 Invariants: [2, 2, 2, 2, 2, 62]
Magma Small Group (1944 , 3973) Order: 1944 Genus: 2593 Invariants: [3, 3, 6, 6, 6]	Magma Small Group (1992 , 39) Order: 1992 Genus: 993 Invariants: [2, 2, 498]
Magma Small Group (1952 , 21) Order: 1952 Genus: 977 Invariants: [2, 4, 244]	Magma Small Group (1998 , 66) Order: 1998 Genus: 1324 Invariants: [3, 3, 222]
Magma Small Group (1952 , 36) Order: 1952 Genus: 973 Invariants: [2, 2, 488]	Magma Small Group (2000 , 45) Order: 2000 Genus: 997 Invariants: [2, 2, 500]

**MAGMA Data for Finite Abelian Groups
with Genus ≥ 2 and Order ≤ 2000**

Magma Small Group (2000 , 61)

Order: 2000 Genus: 1493 Invariants: [2, 2, 2, 250]

Magma Small Group (2000 , 456)

Order: 2000 Genus: 1001 Invariants: [2, 10, 100]

Magma Small Group (2000 , 471)

Order: 2000 Genus: 1576 Invariants: [5, 5, 80]

Magma Small Group (2000 , 508)

Order: 2000 Genus: 1501 Invariants: [2, 2, 10, 50]

Magma Small Group (2000 , 617)

Order: 2000 Genus: 1601 Invariants: [5, 20, 20]

Magma Small Group (2000 , 620)

Order: 2000 Genus: 1601 Invariants: [5, 10, 40]

Magma Small Group (2000 , 892)

Order: 2000 Genus: 1701 Invariants: [10, 10, 20]

Magma Small Group (2000 , 963)

Order: 2000 Genus: 2001 Invariants: [2, 10, 10, 10]