Graph Lower Upper CN

1 6 6 6

2 2 2 2

3 3 6 - 3, 4, 5,

4 2 3 2

5 5 10 - 7

6 10 10 10

7 3 4 3

8 4 6 - 5

9 8 12 - (8-12)

10 8 9 9

11 9 11 - (9-11)

12 2 4 - (2, 3, 4)

13 11 11 11

14 3 4 4

15 2 11 2

16 98 98 98

17 15 15 15

18 3 4 - (3, 4)

19 8 8 8

20 2 4 3

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Graph | V (vertices) | Edges  (Edges) | MCQ  (Lower bound) | WP  (Upper bound) | RLF  (Upper bound) | RLF-1.0  (Upper bound) | DSATUR  (Upper bound) | X(G) |
| 01 | 218 | 1267 | 6 | 8 | 8 | 7 | 6 | 6 |
| 02 | 529 | 271 | 2 | 3 | 3 | 3 | 3 | 3 |
| 03 | 206 | 961 | 3 | 9 | 7 | 7 | 5 | {3, 4, 5} |
| 04 | 744 | 744 | 2 | 3 | 3 | 3 | 3 | 2 |
| 05 | 215 | 1642 | 5 | 10 | 10 | 8 | 7 | 7 |
| 06 | 131 | 1116 | 10 | 14 | 14 | 12 | 10 | 10 |
| 07 | 212 | 252 | 3 | 4 | 4 | 4 | 3 | 3 |
| 08 | 107 | 516 | 4 | 9 | 7 | 6 | 5 | 5 |
| 09 | 43 | 529 | 8 | 12 | 12 | 12 | 12 | {8-12} |
| 10 | 387 | 2502 | 8 | 9 | 9 | 9 | 9 | 9 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Graph | V (vertices) | Edges  (Edges) | MCQ  (Lower bound) | WP  (Upper bound) | RLF  (Upper bound) | RLF-1.0  (Upper bound) | DSATUR  (Upper bound) | X(G) |
| 11 | 85 | 1060 | 9 | 15 | 14 | 12 | 11 | {9, 10, 11} |
| 12 | 164 | 323 | 2 | 5 | 5 | 4 | 4 | {3, 4} |
| 13 | 143 | 498 | 11 | 13 | 11 | 11 | 11 | 11 |
| 14 | 456 | 1028 | 3 | 7 | 6 | 5 | 5 | 4 |
| 15 | 4007 | 1198933 | 2 | 3 | 6 | 5 | 2 | 2 |
| 16 | 107 | 4955 | 98 | 98 | 98 | 98 | 98 | 98 |
| 17 | 164 | 889 | 15 | 15 | 15 | 15 | 15 | 15 |
| 18 | 907 | 1808 | 3 | 5 | 5 | 4 | 4 | {3, 4} |
| 19 | 106 | 196 | 8 | 8 | 8 | 8 | 8 | 8 |
| 20 | 166 | 197 | 2 | 6 | 4 | 3 | 3 | 3 |