PhuTAri 3-Cell - Hard

4752145   4982053   50110707   17938102255768817275   1333

2364876975   67   64387   1876465   217222165116317   13795   97   219

5605066637603   115   6011957785156190073   5   61   267

$$
\begin{aligned}
5 &= 5 \\
61 &= 61 \\
67 &= 67 \\
97 &= 97 \\
115 &= 23 \times 5 \\
219 &= 73 \times 3 \\
267 &= 89 \times 3 \\
1333 &= 43 \times 31 \\
13795 &= 89 \times 31 \times 5 \\
64387 &= 67 \times 31 \times 31 \\
1876465 &= 97 \times 73 \times 53 \times 5 \\
4752145 &= 43 \times 31 \times 31 \times 23 \times 5 \\
4982053 &= 67 \times 61 \times 53 \times 23 \\
50110707 &= 67 \times 67 \times 61 \times 61 \times 3 \\
2364876975 &= 97 \times 73 \times 73 \times 61 \times 5 \times 5 \times 3 \\
5605066637603 &= 89 \times 67 \times 43 \times 43 \times 31 \times 31 \times 23 \times 23 \\
217222165116317 &= 89 \times 89 \times 53 \times 43 \times 43 \times 23 \times 23 \times 23 \times 23 \\
6011957785156190073 &= 97 \times 89 \times 89 \times 73 \times 67 \times 67 \times 61 \times 61 \times 31 \times 23 \times 3 \times 3 \\
17938102255768817275 &= 97 \times 97 \times 89 \times 89 \times 73 \times 67 \times 61 \times 61 \times 23 \times 23 \times 5 \times 5
\end{aligned}
$$

Puzzle ID: G7Z4U52P