PhuTAri 3-Cell - Hard

23   5054292573   529   851   33   7663   679   19131937862188305

2753065845   11779555232199   35221881245382621   399119   67

44542697030500185   7450902635407

$$
\begin{aligned}
23 &= 23 \\
33 &= 11 \times 3 \\
67 &= 67 \\
529 &= 23 \times 23 \\
679 &= 97 \times 7 \\
851 &= 37 \times 23 \\
7663 &= 97 \times 79 \\
399119 &= 67 \times 37 \times 23 \times 7 \\
2753065845 &= 67 \times 37 \times 37 \times 29 \times 23 \times 5 \times 3 \times 3 \\
5054292573 &= 97 \times 79 \times 79 \times 23 \times 11 \times 11 \times 3 \\
7450902635407 &= 97 \times 97 \times 79 \times 67 \times 67 \times 29 \times 11 \times 7 \\
11779555232199 &= 67 \times 67 \times 67 \times 37 \times 29 \times 23 \times 23 \times 23 \times 3 \\
19131937862188305 &= 97 \times 79 \times 79 \times 79 \times 37 \times 37 \times 23 \times 11 \times 11 \times 7 \times 5 \times 3 \\
44542697030500185 &= 97 \times 79 \times 79 \times 79 \times 67 \times 37 \times 23 \times 11 \times 11 \times 5 \times 3 \times 3 \times 3 \\
352218812453282621 &= 97 \times 97 \times 79 \times 79 \times 67 \times 67 \times 67 \times 37 \times 11 \times 7 \times 7
\end{aligned}
$$

Puzzle ID: M5T64G3F