PhuTAri 3-Cell - Hard

89   664638417065591740551   150791329   73   3485426161733373663

2452454318827043703322627   1157   374567070181111118641551659

5213329492554552095179599   1031885435919   29

$$29 = 29$$
$$73 = 73$$
$$89 = 89$$
$$1157 = 89 \times 13$$
$$150791329 = 83 \times 79 \times 61 \times 29 \times 13$$
$$1031885435919 = 79 \times 79 \times 71 \times 71 \times 29 \times 29 \times 13 \times 3$$
$$3485426161733373663 = 97 \times 89 \times 89 \times 89 \times 83 \times 79 \times 79 \times 29 \times 29 \times 13 \times 3 \times 3$$
$$664638417065591740551 = 97 \times 89 \times 89 \times 79 \times 79 \times 73 \times 73 \times 61 \times 29 \times 29 \times 13 \times 13 \times 3$$
$$2452454318827043703322627 = 97 \times 79 \times 79 \times 79 \times 73 \times 73 \times 71 \times 71 \times 61 \times 61 \times 61 \times 29 \times 29$$
$$374567070181111118641551659 = 97 \times 89 \times 89 \times 83 \times 79 \times 79 \times 79 \times 73 \times 71 \times 71 \times 61 \times 61 \times 29 \times 3$$
$$5213329492554552095179599 = 97 \times 97 \times 89 \times 89 \times 89 \times 79 \times 79 \times 73 \times 73 \times 73 \times 61 \times 61 \times 29 \times 3$$

Puzzle ID: AB988L7N