|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation** | **Notation** | **1, 1** | **1, 2** | **1, 3** | **1, 4** | **2, 1** | **2, 2** | **2, 3** | **2, 4** | **3, 1** | **3, 2** | **3, 3** | **3, 4** | **4, 1** | **4, 2** | **4, 3** | **4, 4** |
| **Addition** | + | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | 4 | 5 | 6 | 7 | 5 | 6 | 7 | 8 |
| **Multiplication** | \* | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 | 3 | 6 | 9 | 12 | 4 | 8 | 12 | 16 |
| **Exponentiation** | ↑ | 1 | 1 | 1 | 1 | 2 | 4 | 8 | 16 | 3 | 9 | 27 | 81 | 4 | 16 | 64 | 256 |
| **Tetration** | ↑↑ | 1 | 1 | 1 | 1 | 2 | 4 | 16 | 65,536 | 3 | 27 | 7,625,597,484,987 | 3 ↑ 7,625,597,484,987 | 4 | 256 | 4 ↑ 256 | 4 ↑ (4 ↑ 256) |
| **Pentation** | ↑↑↑ | 1 | 1 | 1 | 1 | 2 | 4 | 65,536 | 2 ↑↑ 65,536 | 3 | 7,625,597,484,987 | 3 ↑↑ 7,625,597,484,987 | 3 ↑↑ (3 ↑↑ 7,625,597,484,987) | 4 | 4 ↑ (4 ↑ 256) | 4 ↑↑ (4 ↑ (4 ↑ 256)) | 4 ↑↑ (4 ↑↑ (4 ↑ (4 ↑ 256))) |
| **Hexation** | ↑↑↑↑ | 1 | 1 | 1 | 1 | 2 | 4 | 2 ↑↑ 65,536 | 2 ↑↑↑ (2 ↑↑ 65,536) | 3 | 3 ↑↑ 7,625,597,484,987 | 3 ↑↑↑ (33 ↑↑ 7,625,597,484,987) | 3 ↑↑↑ (3 ↑↑↑ (33 ↑↑ 7,625,597,484,987)) | 4 | 4 ↑↑ (4 ↑↑ (4 ↑ (4 ↑ 256))) | 4 ↑↑↑ (4 ↑↑ (4 ↑↑ (4 ↑ (4 ↑ 256)))) | 4 ↑↑↑ (4 ↑↑↑ (4 ↑↑ (4 ↑↑  (4 ↑ (4 ↑ 256))))) |