

How Special is the Number 2187 ?

Permutation 1. Sums on the right are permutations of numbers on the left:

$$\begin{aligned}2187 + 1234 &= 3421 \\2187 + 12345 &= 14532 \\2187 + 123456 &= 125643 \\2187 + 1234567 &= 1236754 \\2187 + 12345678 &= 12347865 \\2187 + 123456789 &= 123458976\end{aligned}$$

Permutation 2. The right sides are in another pattern of the numbers on the left:

$$\begin{aligned}2178 + 1234 &= 3412 \\2178 + 2345 &= 4523 \\2178 + 3456 &= 5634 \\2178 + 4567 &= 6745 \\2178 + 5678 &= 7856 \\2178 + 6789 &= 8967\end{aligned}$$

Reversal. $9999 - 2187 = 7812$ (the right is reversal of the left)
 $9999 - 7812 = 2187$
 $2187 / 9999 = 0.2187218721872187\dots$

Power. $2187 = 3^7$
 $1728 = (12)^3$

In base 3. $2187 = 10,000,000$

Elsewhere have you seen 2187 ? -- Perhaps $e = 2.718\dots$?