



# SDP

## THE DECEMBER 2020 BRAIN TEASER & SOLUTION

### Fun with Numbers

**Actual Brain Teaser:** The number 8,549,176,320 is a very unique number. What is so special about it?

**Tie Breaker:** Find a number less than 200 that is increased by one-fifth of its value when its digits are reversed.

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### Solution

The best answer received was from Christian Diendorfer who properly stated that: 8,549,176,320 contains each digit from 0 to 9 and is integer divisible by all numbers from 1 to 9 (but of course not by 0).

However, the out-of-the box answer we were looking for was the fact that the digits, from 0-9 were ordered alphabetically (eg 'e' for eight, etc) left to right.

His tie breaker was exactly correct  $\rightarrow 45 + (45 * 1/5) = 54$ .