



Problem of the Week

Problem B

We've Got Your Number!

I am a nine-digit number. I contain each digit from 1 to 9 except the digit 8, and I contain two appearances of the digit 5. Discover what number I am by using the following clues.

- I am less than 500 000 000.
- My ten millions digit and my ones digit are the same.
- The sum of my hundred millions, ten millions, and millions digits is 18.
- My thousands digit is 1.
- My ten thousands digit is one more than my hundred thousands digit.
- My ones digit is equal to the sum of my hundreds digit and my tens digit.
- My hundreds digit is 3.

EXTENSION: Create your own mystery number and clues.

