

Day 1 Place Value

1. There is a two-digit number. If you write a “3” in front of it, you can get a three-digit number. If you write a “3” after it, you can get another three-digit number. If you write a “3” in front of it and another “3” after it, you get a four-digit number. Adding these two three-digit numbers and a four-digit number equals 3600. Find the original two-digit number.

2. There is an eight-digit number for $\overline{2abcdefg}$, The product of it and 3 can be expressed $\overline{abcdefg4}$. What should be the seven-digit $\overline{abcdefg}$?

3. (RIPMWC2018-15) A 14-digit number $\overline{666666XY444444}$ is a multiple of 26. If X and Y are both positive, what is the smallest value of $X+Y$?