Math 310 - Dr. Miller - Activity #7: Decimal Clues

- 1. Find all possible numbers that satisfy the following collection of clues:
 - The digit in the 10^{-1} position is a third of that in the tens position.
 - The digit in the 10^0 position is three less than the digit in the tens position.
 - The digit in the 10^{-2} position is 5 more than that in the tenths position.
 - No digits appear in the thousandths position or smaller.
 - No digits appear in the 10^2 position or higher.

- 2. Find all possible numbers that fit the set of clues below:
 - \bullet The digit in the 10^0 position is one less than that in the tenths position.
 - The digit in the 10^{-2} position is odd.
 - Rounded to the nearest ten, the number is 430.
 - \bullet The number has no digits in the 10^{-3} or lower positions.
 - The digit in the 10^{-1} position is twice that in the hundredths position.