The first digit can be neither 0 nor 1 because these indicate the following is a long distance phone call. The second and third digits cannot both be 1 because the three digit sequence n*11 are reserved (411, 911, etc.). Also numbers of the form 555-xxxx are reserved for use in entertainment and examples. So the total number of valid phone numbers is $8 * 10^6 - 8 \times 10^4 - 1 \times 10^4 = 7910000$

How many valid phone numbers have the desired property?

If the first digit is 8, pick 3 out of the remaining 6 positions to have the same value as Jenny's. $C(6, 3) = 6!/(3! \times (6-3)!) = 20$. Each of the 3 remaining digits may be any value, except the value in the corresponding position in Jenny's number, i.e., $9^3 = 729$. The total is $20 \times 729 = 14580$.

If the first digit is not 8,pick 4 out of the remaining 6 position to match Jenny's. $C(6, 4) = 6!/(4! \times (6-4)!) = 15$ The first digit can't be 0, 1, or 8, but the other two can be any of 9 values, i.ee, 7 * 9 * 9 = 567. The total is $15 \times 567 = 8505$.

But some of these are invalid. First exclude the 811-xxxx numbers. Exactly one of the last 4 digits is the non-matching one, giving $4 \times 9 = 36$ phone numbers to exclude. Next exclude the n11-xxxx numbers. Because none of the first three digits match Jenny's, we know xxxx must be 5309. Therefore, there are 7 phone numbers to exclude. Finally, exclude 555-5309.

Thus the total number of valid phone numbers with the desired property is $14580 + 8505 - 36 - 7 - 1 = 23041$ and the desired probability is 23041/7910000 or approximately 0.2913%.