num words = 57

w1 = ['1', '1', '1', 0.313641]
w2 = ['2', '2', '5', 0.593465]
w3 = ['2', '2', '5', 0.593466]
w4 = ['3', '1', '1', 0.384441]
w5 = ['3', '1', '1', 0.384447]
w6 = ['2', '1', '9', 0.209021]
w7 = ['2', '2', '9', 0.20902]
w8 = ['1', '1', '9', 0.707107]
w9 = ['2', '2', '1', 0.384444]
w10 = ['3', '2', '1', 0.098041]
w11 = ['1', '1', '5', 0.707106]
w12 = ['1', '1', '1', 0.490080]
w13 = ['1', '1', '1', 0.322661]
w14 = ['1', '1', '1', 0.490007]
w15 = ['1', '9', '1', 0.322661]
w16 = ['1', '1', '1', 0.593465]
w17 = ['1', '1', '1', 0.384446]
w18 = ['1', '1', '1', 0.593466]
w19 = ['2', '3', '9', 0.113642]
w20 = ['3', '9', '9', 0.384446]
w21 = ['1', '9', '9', 0.384447]
w22 = ['2', '2', '1', 0.384447]
w23 = ['2', '2', '1', 0.384446]
w24 = ['2', '2', '1', 0.270805]
w25 = ['3', '1', '9', 0.384446]
w26 = ['3', '1', '9', 0.384447]
w27 = ['1', '1', '1', 0.113642]
w28 = ['1', '9', '9', 0.593465]
w29 = ['1', '2', '9', 0.209019]
w30 = ['1', '2', '9', 0.593466]
w31 = ['2', '9', '9', 0.32266]
w32 = ['1', '9', '9', 0.322661]
w33 = ['1', '1', '9', 0.322661]
w34 = ['1', '1', '9', 0.52266]
w35 = ['1', '1', '9', 0.209019]
w36 = ['2', '1', '9', 0.209019]
w37 = ['2', '1', '9', 0.593465]
w38 = ['2', '1', '9', 0.593466]
w39 = ['2', '1', '9', 0.322661]
w40 = ['3', '2', '1', 0.384446]
w41 = ['1', '2', '1', 0.384446]
w42 = ['3', '2', '1', 0.384447]
w43 = ['1', '3', '1', 0.384447]
w44 = ['2', '9', '9', 0.209019]
w45 = ['2', '9', '9', 0.32266]
w46 = ['3', '3', '9', 0.384446]
w47 = ['3', '3', '5', 0.384447]
w48 = ['1', '2', '1', 0.384446]
w49 = ['1', '1', '1', 0.384446]
w50 = ['1', '1', '9', 0.113641]
w51 = ['1', '2', '1', 0.384447]
w52 = ['1', '9', '9', 0.593466]
w53 = ['2', '1', '1', 0.384446]
w54 = ['2', '1', '1', 0.593465]
w55 = ['9', '9', '9', 0.98909]
w56 = ['2', '1', '1', 0.593466]
w57 = ['1', '2', '9', 0.20902]