

(G) By the Same Token (1/2)

G1. “Types” refers to the number of distinct letters found in the word. “Tokens” refers to the total number of letters in the word (i.e., its length). Here are some possible entries for the chart:

Word	Types	Tokens
rock	4	4
paper	4	5
scissors	5	8
shoot	4	5
shaping	7	7
add	2	3
senselessness	4	13
metal	5	5
assesses	3	8
hemidemisemiquaver	11	18
squeegee	5	8
a	1	1
dog	3	3
speaking	8	8
noon	2	4
singing	4	7
unpredictably	13	13

All of the numbers must be the exact values shown, but there are many options for the words; e.g., *a* could be replaced with *l* and *unpredictably* could be replaced with *troublemaking*. (It is very difficult to think of words that fit the 13-13 requirement of being 13 letters long with no repeated letters, but careful observers might notice the hint of *unpredictably* being heavily emphasized in the intro text). Fun fact: The longest English words with no repeated letters are *uncopyrightable* and *dermatoglyphics* (15 letters each), according to <https://www.morewords.com/unique-letters/>.

For half credit, solvers could have used nonsense letter strings that fulfill the given criteria; e.g., *abcdbbb* could have been used instead of *singing*.



(G) By the Same Token (2/2)

G2. Here is what the table looks like with the extra letters removed:

Shilha word	Types in correct Shilha word	Tokens in correct Shilha word	English translation
AFULUS	5	6	male chicken
IFULUSN	6	7	male chickens
TAFULUST	6	8	female chicken
TIFULUSIN	7	9	female chickens
ATBIR	5	5	male pigeon
ITBIRN	5	6	male pigeons
TATBIRT	5	7	female pigeon
TITBIRIN	5	8	female pigeons
AFUNAS	5	6	ox (male bovine)
IFUNASN	6	7	oxen (male bovines)
TAFUNAST	6	8	cow (female bovine)
TIFUNASIN	7	9	cows (female bovines)
ASHLHIY	6	7	male speaker of Shilha
ISHLHIYN	6	8	male speakers of Shilha
TASHLHIYT	7	9	female speaker of Shilha
TISHLHIYIN	7	10	female speakers of Shilha
ADRAR	3	5	mountain (masculine)
IDRARN	5	6	mountains (masculine)
TADRART	4	7	mountain (feminine)
TIDRARIN	6	8	mountains (feminine)

Thus, the answers to the specific questions asked are:

- (l) TATBIRT
- (m) ATBIR
- (n) TAFUNAST
- (o) ADRAR
- (p) TIDRARIN

