

Name \_\_\_\_\_

**Turkish Nouns - 1**

The following examples illustrate alternations in Turkish suffixes after each of the vowel phonemes of Turkish. Your task is to write a lexicon and grammar for this set of data.

The data has been transcribed using these symbols:

‘ı’ is a high back unrounded vowel [ɯ]

‘ü’ is a high front rounded vowel [y]

‘ö’ is a non-high front rounded vowel [ø]

‘a’ is a non-high back unrounded vowel [ɑ]

‘ç’ is a voiceless palatal affricate

‘y’ is the glide [j]

All other symbols have their standard IPA value.

	<b><u>Nominative Sg.</u></b>	<b><u>Genitive Sg.</u></b>	<b><u>Accusative Sg.</u></b>	
1.	ip	ipin	ipi	‘rope’
2.	kız	kızın	kızı	‘girl’
3.	yüz	yüzün	yüzü	‘face’
4.	pul	pulun	pulu	‘stamp’
5.	el	elin	eli	‘hand’
6.	çan	çanın	çanı	‘bell’
7.	köy	köyü	köyü	‘village’
8.	son	sonun	sonu	‘end’

**Preliminary Work**

1. Analyze each Gen Sg. and Acc. Sg. form into Stem + Suffix in the first column below.
2. In the 2d column below, state which allomorph of the Gen. Sg. & Acc. Sg. suffixes occurs in each example.

	<b><u>Stem + Suffix</u></b>	<b><u>Gen. Sg. Allomorph</u></b>
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
	<b><u>Stem + Suffix</u></b>	<b><u>Acc. Sg. Allomorph</u></b>
9.		
10.		
11.		
12.		
13.		

14.

15.

16.

3. In the space below, list each allomorph of each suffix. Next to each one, list the environments in which that allomorph appears.

Allomorph 1 of the Gen. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 2 of the Gen. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 3 of the Gen. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 4 of the Gen. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 1 of the Acc. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 2 of the Acc. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 3 of the Acc. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

Allomorph 4 of the Acc. Sg. suffix is \_\_\_\_\_. It appears in the following environments:

4. Generalize what you have written immediately above, i.e. state each environment in general terms; do not make a list.

a) The Gen. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

b) The Gen. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

c) The Gen. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

d) The Gen. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

e) The Acc. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

f) The Acc. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.

- g) The Acc. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.
- h) The Acc. Sg. allomorph \_\_\_\_\_ appears in the environment \_\_\_\_\_.
5. To answer the questions below, you will have to talk about the *features* of vowels ([High], [Back], and [Round]) and their *values*. A given vowel has a particular *value* for each feature, e.g. /u/ has the value "+" for the feature [High], so it is [+ High]; /o/ has the value "-" for the feature [High], so it is [-High].
- a) What feature value(s) do the vowels in all the allomorphs of the Acc. Sg. suffix have in common?
- b) What feature value(s) differ in the vowels in all the allomorphs of the Acc. Sg. suffix?
- c) What is the relation between the feature value(s) in the allomorphs of the Acc. Sg. suffix and the environments that cause those suffixes to appear?
- d) What feature value(s) do the vowels in all the allomorphs of the Gen. Sg. suffix have in common?
- e) What feature value(s) differ in the vowels in all the allomorphs of the Gen. Sg. suffix?
- f) What is the relation between the feature value(s) in the allomorphs of the Gen. Sg. suffix and the environments that cause those suffixes to appear?
6. All the feature values of the vowels in the different allomorphs of the suffixes are *predictable*.
- a) The vowels in all the allomorphs of the two suffixes have the feature value \_\_\_\_\_.
- b) Each vowel's value for the features \_\_\_\_\_ and \_\_\_\_\_ depends on its environment.
- c) State the generalization that predicts each vowel's value for these features, as a function of its environment.
7. A big step. It is possible to posit a single form for each suffix from which all the allomorphs can be derived. You can do this by positing a form consisting of only what all four allomorphs of each suffix have in common.

Do this, and then state the generalization that predicts those aspects of each allomorph that vary according to the environment.