As you can probably see, the syllable /lar/ occurs in all four items in our sample. From the translations of these items, you can see that a particular feature of meaning—namely, plurality—is present in all four cases as well. Using the procedure just stated, we therefore hypothesize that /-lar/ is the morpheme marking plurality in Turkish. Once this has been determined, we can then infer that /mum/ in /mumlar/ is also a morpheme (with the meaning 'candle'), that /top/ in /toplar/ is a morpheme (with the meaning 'gun'), and so on. A larger sampling of Turkish data would confirm the correctness of these inferences.

In doing morphological analysis in unfamiliar languages, a number of pitfalls must be avoided. For the type of data normally investigated at the introductory level, the following guidelines are especially important.

- Do not assume that the morpheme order in the language you are analyzing is the same as in English. In Korean, for example, morphemes indicating location (the rough equivalent of 'at', 'in', and so forth) follow rather than precede the noun (hakkyo-eyse 'at school' is literally 'school at').
- Do not assume that every semantic contrast expressed in English will also be manifested in the language you are analyzing. Turkish, for instance, has no equivalent for English *the* and *a*. Mandarin has no *he-she* distinction: the same pronoun form can be used to refer to a male or a female.
- Conversely, do not assume that every contrast expressed in the language you are analyzing is manifested in English. For example, some languages distinguish more than two number categories (Inuktitut distinguishes singular, dual, and plural), and some languages make multiple tense contrasts (ChiBemba has an eight-way distinction).
- Remember that a morpheme can have more than one form, or allomorph. For example, further study of Turkish would reveal that the plural suffix in this language can also be realized as /-ler/, depending on the vowel in the base to which the suffix is attached.

Exercises

Note: Data from languages other than English is sometimes presented in transcribed form (in which case it appears between slashes) and sometimes in the native orthography or romanization.

1. Consider the following words and answer the questions below. (See Section 1.)

a) fly b) desks f) reuse g) triumphed k) spitefull) suite

p) preplanq) optionality

c) untied) tree

h) delighti) justly

m) fastest n) deform r) prettiers) mistreat

e) dislike

j) payment

o) disobey

t) premature

- i) For each word, determine whether it is simple or complex.
- ii) Circle all the bound morphemes. Underline all the roots.

	WOW II O DO GIT III D		, , ,	, 01.2	71100101	150	
2.	The following problem, from the Micronesia), was authored by Em Note: INCL = inclusive (the speake EXCL = exclusive (the speake PL = plural sG = singular	erson Loper and the errand som	ez Oda addres neone	ango, Da see) other th	ata are in o	rthography. ressee)	
	a) ngiij 'my tooth' b) ngiimw 'your (sG) tooth' c) ngiin 'his/her/its tooth' d) ngiish 'our (INCL) tooth'	f) 1	ngiima ngiimi ngiir		our (EXCL) t your (PL) to their tooth	oth'	
	i) Identify the morpheme correction tooth my your (sG) his/her/its	sponding our (INCL) our (EXCL your (PL) their)		following:	o.	
1	ii) Given that the word for 'leg/fi each of the following? your (sg) leg/foot his/her/its leg/foot our (EXCL) leg/foot		ortlock	ese is pe	she, how w	ould you say	
3.	Papua, Indonesia) was authored by all all all all all all all all all al	y Jason Ja r' er' other'	ckson. i) if j) at k) or l) it m) at n) or o) if	Data and the control of the control	his/her h his/her h my ear' your ear' his/her e my stom your stor his/her s	graphy. aand' ar' ach' nach' tomach'	
	 i) Irarutu has different strategies and possession in the case of the morphemes used to expression. ii) Given that <i>mce</i> means 'eye' are you say each of the following his/her younger sibling my eyehis/her eye 	f body par ess each ty nd that <i>nfu</i> g in Iraruti	ts. Bas pe of t mean	sed on t possessi	he data abo on.	ove, identify	
4.	Consider the following data from H a) /sebomme/ 'We bought (b) /sebomko/ 'We bought (c) /sebomkowee/ 'We did not h	a long tim recently).'	e ago)	-	ge spoken ir	ı Cameroon.	

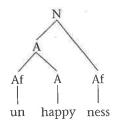
	(b) (njebomme/ (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	'They bought (re 'You (PL) bought	(a long time ago). cently).'	
	I you (sg) s/he buy negation (not) recent past (re	y tl	ve ou (PL) hey	following concepts?
	I bought (recei I didn't buy (re	ou say the followin ntly)ecently)ecently)ea long time ago)	_	
	(Data from: Malco [Oxford: Oxford Un	lm Guthrie, <i>The B</i> niversity Press, 195	antu Languages of 3].)	Western Equatorial Africa
5.	or more morpheme a) xaridam b) xaridi c) xarid d) naxaridam e) namixaridand f) naxaridim g) mixarid h) mixaridid	'I bought' 'you (sg) bo '(he) bough 'I did not b 'they were n 'we did not '(he) was bu 'you (pl) we	ought' ought' uy' not buying' buy' uying' streed buying'	chography) consist of two signates the past tense.)
	I you (sg) we you (PL)	they not	-ing (continuous)	<u> </u>
	They were buyi You (sg) did no	u say the following ing t buy uying	g in Persian?	
6.	Data are in the orth a) racañeea 'I b) racañeelo 'yo	ving data from Zaj ography of the sou help' ou (sG) help' he helps'	potec, an indigend irce. racañeetonoo racañeetoo racañeeni	ous language of Mexico. 'we help' 'you (PL) help' 'they help'

d) cocañeea e) cocañeelo f) cocañeeni g) cacañeea h) cacañeelo i) cacañeeni	'I helped' 'you (sG) helped' 's/he helped' 'I will help' 'you (sG) will help' 's/he will help'	cocañeetono cocañeetoo cocañeeni cacañeetono cacañeetoo cacañeeni	'you (PL) hclped' 'they helped'	
help PRESENT PAST FUTURE (Data from Gra	he following notion I you (sg) he/she/they mática de la lengua	we you (PL)	nonymous author. Mexico:	
	la Secretaría de For sllowing data from ' 'a restaurant' 'a door' 'an appointment' 'a head' 'a book' 'an armchair' 'a side'		in phonemic transcription. 'in/at a restaurant' 'in/at a door' 'in/at an appointment' 'in/at a head' 'in/at a book' 'in/at an armchair' 'in/at a side'	
ii) Describe the The following	i) What are the allomorphs for the Turkish morpheme meaning 'in/at'?			
a) /hrabra/ b) /hrabro/ c) /pametna/ d) /pametno/ e) /sretçna/ f) /sretçno/ g) /lepo/ h) /lako/	'brave (FEM SG)' 'brave (NEUT SG)' 'smart (FEM SG)' 'smart (NEUT SG)' 'happy (FEM SG)' 'happy (NEUT SG)' 'beautiful (NEUT SG)'	/hrabrija/ /hrabrije/ /pametnija/ /pametnije/ /sretçnija/ /sretçnije/ G)' /lepʃe/ /lakʃe/	'braver (FEM SG)' 'braver (NEUT SG)' 'smarter (FEM SG)' 'smarter (NEUT SG)' 'happier (FEM SG)' 'happier (NEUT SG)' 'more beautiful (NEUT SG)' 'lighter (NEUT SG)'	
each.	alvsis of the above	data is correct, yo	and indicate the meaning of u will have noticed instances as does each allomorph occur?	
Consider the fa) desksb) untiec) insincered) disprove		i) prearrangej) smartestk) redistributel) disobey	m) optionality n) prettier o) mistreat p) resell	

- ii) For the word *optionality*, what is the base for the affix *-ion*? What is the base for the suffix *-ity*? Are either of these bases also the root for the entire word? If so, which one?
- 10. The following problem, from Puyuma (a Formosan language, spoken in Taiwan), was authored by Yen-hsin Chen. Data are in orthography of the source.

a) sanay	'a song'	semanay	'to sing'
b) treli	'a decrease in weight'	tremeli	'to lighten'
c) traetra	ʻa lock'	tremaetra	'to lock'
d) sapuk	'a seedling'	semapuk	'to sow'
e) seber	'a bud'	semeber	'to bud'
f) garutr	'a comb'	gemarutr	'to comb'
g) sungal	'a bow'	semungal	'to bow (to someone)'
P/ 0011901		_	· ·

- i) What is the affix that converts nouns into verbs in Puyuma? (See Section 1.2.)
- ii) What type of affix is it?
- 11. In this chapter, an argument was presented in favor of the following structure for the word *unhappiness*. (See Section 2.1.)



Using the same type of argument, draw and justify tree structures for the words *unresourceful*, *redisposal*, and *disinvestment*. (*Hint*: This will involve determining the type of syntactic category with which the affixes in these words can combine; see Table 4.6.)

12. In English, the suffix -er can be added to a place name. Examine the words in the two columns below. (See Section 2.)

CITO COLUMNIA	. ,
Column 1	Column 2
Long Islander	*Denverer
Vermonter	*Philadelphiaer
New Yorker	*Delawarer
Marylander	*Atlantaer
Londoner	*Miamier

- i) In general terms, what does the suffix -er mean in these words?
- ii) How is this -er different in meaning from the -er found in the words skater and walker?
- iii) State the constraint on the distribution of -er illustrated in this data set.
- iv) Does this constraint also apply to the type of -er used in the word skater? (Hint: What would you call 'one who discovers' or 'one who rows'?)

13. The following words have all been formed by compounding. Draw a tree structure for each word. If you are in doubt as to the lexical category of the compound, remember that the category of the head determines the category of the word. (See Section 3.)

a) football

i) tree trunk

q) hockey match

b) billboard

j) lead-free

r) coffee table

c) sunspot d) in-crowd k) home plate l) girlfriend

s) flower pot t) blueprint

e) fast food

m) city center

f) softball

n) failsafe

u) red alert v) space ship

g) freeze-dry

o) potato peel

h) oversee

p) bittersweet

14. Examine the following compounds and answer the questions below. (See Section 3.)

a) loudmouth

h) cutthroat

b) skinhead

i) pickpocket

c) killjoy

j) spoilsport

d) bath towel

k) crybaby

e) death blow

I) brain-dead

f) airhead

m) blow-dry

g) snowman

n) armchair

For each of the compounds determine whether it is endocentric or exocentric. i)

ii) How do you form the plural of *snowman* and *loudmouth*? (*Hint*: See Table 4.13. Also, pay special attention to the pronunciation of mouth. Is it any different here than when it is an independent word?)

15. English contains many verbal expressions that consist of a verb plus a preposition: hold up (a bank)

carry on (a conversation)

drop out (of school)

back down (from a challenge)

take over (a company)

Should these sorts of expressions be considered compounds? In answering this question, be sure to refer to the properties of compounds discussed in Section 3.

Now consider the nouns that are derived from these verbal expressions via conversion: a holdup, a dropout, a takeover. According to the criteria you used to answer the preceding question, should they be considered compounds?

16. State whether the words in each of the following groups are related to one another by process of inflection or derivation. (See Section 4.2.)

a) go, goes, going, gone

b) discover, discovery, discoverer, discoverable, discoverability

c) lovely, lovelier, loveliest

d) inventor, inventor's, inventors, inventors'

e) democracy, democrat, democratic, democratize

ne

ater

ter?

- 17. The following sentences contain both derivational and inflectional affixes. Underline all of the derivational affixes and circle the inflectional affixes. (See Sections 2 and 4.)
 - a) The farmer's cows escaped.
- e) The strongest rower continued.

b) It was raining.

- f) The pitbull has bitten the cyclist.
- c) Those socks are inexpensive.
- g) She quickly closed the book.
- d) Jim needs the newer copy.
- h) The alphabetization went well.

(Data from: A. Koutsoudas, *Writing Transformational Grammars* [New York: McGraw-Hill, 1966].)

18. Each of the following columns illustrates a different way of marking inflection. (See Section 5.)

Column 1	Column 2	Column 3
a) mouse/mice	f) go/went	k) record/recorded
b) dive/dove	g) is/was	l) arrive/arrived
c) take/took	h) good/better	m) start/started
d) man/men	i) she/her	n) discuss/discussed
e) eat/ate	j) am/are	o) try/tried

- i) How is inflection expressed in column 1? column 2? column 3?
- ii) Think of at least one more English example to add to each column.
- 19. Consider the following data from Samoan, presented in the native orthography. (The ['] symbol represents a glottal stop.) (See Section 5.1.)

,	/	1 0 1,	` '	
a)	mate	'he dies'	mamate	'they die'
b)	nofo	'he stays'	nonofo	'they stay'
c)	galue	'he works'	galulue	'they work'
d)	tanu	'he buries'	tatanu	'they bury'
e)	alofa	'he loves'	alolofa	'they love'
f)	ta'oto	'he lies'	ta'o'oto	'they lie'
g)	atama'i	'he is intelligent'	atamama'i	'they are intelligent'

- i) What morphological process is used to express the inflectional contrast between singular and plural here?
- ii) Describe how it works in your own words.
- iii) If 'he is strong' is malosi in Samoan, how would you say 'they are strong'?
- 20. The following words from Chamorro, spoken in Guam and the Mariana Islands, all involve derivation. (Data are presented in Chamorro orthography.) (See Sections 2 and 5.)

I. Root		Derived word		
a) adda	'mimic'	aadda	'mimicker'	
b) kanno	'eat'	kakanno	'eater'	
c) tuge	'write'	tutuge	'writer'	

II. Root		Derived word	
d) atan	'look at'	atanon	'nice to look at'
e) sangan	'tell'	sanganon	'tellable'
f) guaiya	'love'	guaiyayon	'lovable'
g) tulaika	'exchange'	tulaikayon	'exchangeable'
h) chalek	'laugh'	chalekon	'laughable'
i) ngangas	'chew'	ngangason	'chewable'
III. Root		Derived word	
j) nalang	'hungry'	nalalang	'very hungry'
k) dankolo	ʻbigʻ	dankololo	'very big'
l) metgot	'strong'	metgogot	'very strong'
m) bunita	'pretty'	bunitata	'very pretty'

Like inflection, derivation can be expressed in a variety of ways—including by affixation of various types (prefixation, suffixation, infixation) and by reduplication.

- i) What morphological process is manifested in I? in II? in III?
- ii) Formulate a general statement that describes how the derived words in I are formed. Do the same for II and III.
- iii) One of these derivational processes consists of affixation involving allomorphs. What are the allomorphs, and what is the distribution of the allomorphs?
- 21. The following words can be either nouns or verbs.
 - a) record
 b) journey
 c) exchange
 f) outline
 g) convict
 l) assault
 m) answer
 - d) remark i) reply n) import e) surprise j) retreat o) cripple
 - i) For each word, determine whether stress placement can be used to make the distinction between noun and verb. (See Section 5.2.)
 - ii) Think of two more English examples illustrating the process of stress shift to mark a category distinction.
- 22. Indicate the morphological phenomenon illustrated by the items in column 2. (See Section 5.2.)

Column 1	Column 2
a) automation	→ automate
b) humid	→ humidifier
c) information, entertainment	\rightarrow infotainment
d) love, seat	\rightarrow loveseat
e) 'progress	→ pro'gress
f) typographical error	→ typo
g) aerobics, marathon	→ aerobathon

	h) act	→ deactivate	
	i) curve, ball	→ curve ball	
	j) methamphetamine	→ meth	
	k) (the) comb	→ comb (your hair)	
	l) beef, buffalo	→ beefalo	
	m) random access memory	$\rightarrow RAM$	
	n) megabyte	\rightarrow meg	
	o) Federal Express	\rightarrow FedEx	
	p) applications (for a computer)	\rightarrow apps	
	q) They have finished	→ They've finished	
	r) Global Positioning System	\rightarrow GPS	
	· -	1 1 Oceans a ground for cook of	
23.	Here are ten instances where a new w	yord is needed. Create a word for each of	
	these definitions in the manner indica	ted. (See Section 5.2.)	
	a) Use an acronym for your uncle's	s second oldest brother.	
	"We visited my at Chris	tmas."	
	b) Use onomatopoeia for the sound	d of a dishwasher at work.	
	"I can't concentrate because my dis	shwasher is ing."	
	c) Use conversion for wrapping some	mething breakable in bubble wrap.	
	"You'd better that ornar	ment or else it might break."	
		ing string of cheese stretching from a slice	
	of hot pizza to one's mouth.	11	
	"As the hung precarious	sly from my lips, our eyes meti	
	e) Use backformation for the actio	n of backformation.	
	"We had to words in lir	iguistics class today."	
	f) Use a product name for the act	of cleaning a mirror with windex.	
	"Ied the mirror to get ri	d of the fingerprints."	
	_	of breaking dishes, which Jonathan does	
	regularly.	1 1 1 "	
	"He's going to all of my	best disnes."	
	h) Use clipping for a course in ovinology (the study of sheep).		
	"Have you done your a	ssignment yet:	
	i) Use derivation for being able to	be contacted.	
	"The counselor is not very		
	j) Use a blend for a hot drink mad	the With Chocolate and girlseng.	
	"I'll have a and two pea		
24	. In Korean, /p/ and /m/ are distinct ph	onemes, as shown by contrasts such as the	
	following:		
	/pap/ 'food' /pam/ 'night'		
	Harmon under the circumstances ill	ustrated below, /p/ is converted to /m/.	
	/pap/ 'food' + /məkə/ 'eat' become	es /pamməkə/ 'eat food'	
	/sip/ 'ten' + /njən/ 'year' becomes	/simnjən/ 'ten years'	
	/ip/ 'mouth' + /man/ 'only' become	nes /imman/ 'mouth only'	

- What type of phenomenon is this? (See Section 6.)
- Describe the process that is involved in terms of the change that takes place and the context in which it occurs.
- iii) Now consider the following additional data.

/hak/ 'school' + /njən/ 'year' becomes /haŋnjən/ 'school year' /ot/ 'clothes' + /mana/ 'be many' becomes /onmana/ 'there are many clothes'

Based on this data, how would you modify the statement that you made in response to question (ii)?



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For the Student Linguist

BAMBIFICATION

Well, of course, language is productive. You can't possibly read this chapter without being completely convinced of how very easy it is to make up new words. Morphological productivity is mildly interesting when you're creating transparent new words, such as when you have a verb like fax and create a new verb like refax (fax again) or speed-fax (fax fast) or an adjective like faxable (can be faxed), but it's not exactly earth-shattering.

What amazes me, though, is running across a new word, knowing it's a perfectly good word in English, knowing exactly how to pronounce it, and not having a clue about what it means. I'm not talking about knowing frete could be a word because it doesn't break any phonological rules of English. I'm talking about a word whose meaning remains mysterious even though that word can be broken down into recognizable, meaningful parts. Take the word Brazilification, which appears in Douglas Coupland's novel Generation X. Brazilification might appear in a sentence like "The recent Brazilification seen in the United States will have a large impact on tax reform plans." Brazilification could mean 'the replacement of forests with cattle ranches' or 'the improved quality of coffee' or many other things; it actually means 'the widening gulf between the rich and the poor and the accompanying disappearance of the middle classes' (p. 11). From this, the meaning of Brazilify is transparent: make the gulf between the rich and the poor wider, thereby causing the disappearance of the middle classes.

Now consider Bambification, another morphologically complex word from Coupland's book. It means 'make like X', where X is a variable that can be replaced by Brazil, or Bambi, or some other noun. Bambification doesn't mean 'make like Bambi's economic system', although theoretically it could. It means