# Answer Key An Introduction to Language 

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## Chapter 1

1. Sound sequences. Any word that conforms to the sound pattern of English is a correct answer. For example:

Bliting: $b l$ as in blood, iting as in lighting
Krame: $k r$ as in cream, ame as in aim
Swirler: sw as in swim, irl as in girl, er as in rider
Kristclean: $k r$ as in cream, $i$ as in pit, st as in street, clean as in clean
Atla: as in atlas
Oxfo: $o x$ as in $o x, f o$ as in foe
Existing English words as names of new products are also acceptable: for example, Kleen or Clean as the name of a laundry soap.
2. Grammaticality judgments. The following sentences are ungrammatical, but note that some judgments may vary across dialects:
a. *Robin forced the sheriff go.

The word to is missing in front of the verb go. The verb force requires a to infinitive in the embedded clause.
f. "He drove my house by.

Particles are preposition-like words that occur with verbs such as look, as in look up the number or look over the data. Particles can occur after their direct object: look the number up; look the data over. True prepositions do not behave this way. He ran up the stairs is grammatical, but *He ran the stairs up is not. The by in He drove by my house functions as a preposition and may not occur after the direct object.
g. *Did in a corner little Jack Horner sit?

You cannot turn a statement that begins with a prepositional phrase into a question. While you can form a question from Little Jack Horner sat in a corner with Did little Jack Horner sit in a corner, you cannot question the sentence In a corner little Jack Horner sat.
h. *Elizabeth is resembled by Charles.

The verb resemble does not occur in passive sentences.
k. "It is eager to love a kitten.

If the pronoun it refers to an animate (nonhuman) thing (e.g., a dog), the sentence is grammatical. If the word it is a "dummy subject," as
in It's easy to love a kitten, the sentence is ungrammatical because the adjective eager must have a referential subject.

1. *That birds can fly flabbergasts.

Flabbergast is a transitive verb: it requires a direct object. Compare That birds can fly flabbergasts John.
n. *Has the nurse slept the baby yet?

The verb sleep is intransitive: it cannot take a direct object (in this case, the baby).
o. *I was surprised for you to get married.

The clause following the adjective surprised cannot be in the infinitive form, e.g., to get.
p. "I wonder who and Mary went swimming.

This "question" is derived from the more basic sentence Someone and Mary went swimming. The coordinate structure constraint (see Chapter 3 for mention, but not a complete description) requires coordinate structures to be treated as a whole, not in part. So it is ungrammatical in most, but not all dialects of English, to ask *Who and Mary went swimming? because there is an attempt to question one part, but not the other part, of the coordinate structure. This also explains the ungrammatical nature of "I wonder who and Mary went swimming with similar caveats about dialectal and idiolectal variation.
q. "Myself bit John.

Reflexive pronouns like myself, yourself, herself, themselves, etc., do not occur as subjects of sentences but only as objects, e.g., John hurt bimself.
s. "What did Alice eat the toadstool and?

A wh-phrase cannot be moved from inside a coordinate structure (e.g., the toadstool and the fungi) to form a wh- question.
3. Onomatopoeic words. Sample answers:
swish-what you do when you ski
thunk-the sound of a baseball hitting a mitt scrunge-the sound of a sponge wiping a table glup-the sound made when you swallow squeeng-the sound made when you pluck a taut elastic band
4. Nonarbitrary and arbitrary signs. Sample answers:
a. Nonarbitrary signs:

- a picture of a knife and fork indicating a restaurant
- the wheelchair sign that indicates disabled persons such as is used to reserve parking
- "No Smoking" sign with a slash through a burning cigarette
- "Do not Iron" sign on clothes depicting an iron with an X through it b. Arbitrary signs:
- some gestures (e.g., a thumbs-up or a thumbs-down)
- stripes on military uniforms to represent different ranks
- a black armband for someone in mourning
- the U.S. zip code system
- some mathematical symbols (e.g.,,,$+-=$ )

5. Learning. The first statement (I learned a new word today) is quite probable. We constantly add to our vocabulary. In reading this book, for example, you may learn many new words. The second statement (I learned a new sentence today) is not very likely, since most sentences are not learned or memorized but rather constructed freely. Some sentences, such as slogans or sentences from a foreign language, may be learned as whole entities.
6. Alex, the African grey parrot. Answers will vary. Students may point out that Alex's ability to mimic human speech and the size of his vocabulary are quite impressive. They may further point out, however, that the ability to make human-like sounds and to memorize even a large number of words is not, in itself, language. The real question is not whether Alex can use human-like sounds to communicate, which he clearly can, but whether he has human language-like capabilities. Human language is an infinitely creative system made up of discrete, meaningful parts that may be combined in various ways. While Alex's talents are impressive, he can communicate only a small set of messages, while human language is infinitely creative in both the number and kinds of messages transmitted. There is no data demonstrating that Alex has any understanding or use of syntax. Without syntax, the communication system cannot be anything more than a communication system.
7. Communication system of a wolf. While a wolf's communication system is quite large and complex, it is finite and restricted to a limited set of messages within a single domain (the wolf's current emotions). Human language, on the other hand, is capable of expressing an infinite number of messages on any topic. Moreover, a wolf is unable to produce new messages using a different combination of independently meaningful gestures the way humans can.
8. A dog's understanding of speech. No. Even if the dog learned to respond to given cues to heel, sit up, beg, roll over, play dead, stay, jump, and bark in the correct way, it would not be learning language since its response would be driven solely by those cues. Such responses are stimulus-controlled
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behavior. There is no creative aspect to the system: the dog could not associate a novel combination of cues with a complex action.
9. "Correct" rules of grammar. Here are some rules, often taught in English classes, which seem unnatural to many speakers:
a. Never end a sentence with a preposition. Yet What are you putting those marbles into? is more common and natural for the majority of English speakers (including teachers of English) than Into what are you putting those marbles? English grammar permits the splitting of prepositional phrases.
b. Don't split infinitives (i.e., don't insert anything between the infinitive marker to and the verb). However, a sentence such as He was the first one to successfully climb Mount Everest is grammatical.
c. Use whom rather than who when the pronoun is the object of a verb or preposition, e.g., Whom (rather than who) did you meet yesterday? While this may have been part of the mental grammar of English speakers in the past, for most dialects the syntax has changed and Who did you meet yesterday? is the grammatical or "acceptable" structure.
The essay may point out that a descriptive grammar describes speakers' basic linguistic knowledge while a prescriptive grammar postulates a set of rules that are considered "correct." Prescriptive grammarians often misunderstand the nature of language change and ignore the fact that all dialects are rule-governed and capable of expressing thought of any complexity.
10. Comments on Chomsky's remark. Chomsky believes that if apes were endowed with the ability to acquire language they would do so. The answer to this question should reflect an understanding of the studies presented in the chapter, which purport to show that the acquisition of language follows a pattern of development analogous to other kinds of biological development and is a result of a biological endowment specific to humans. The basis of the remark is in the fact that humans acquire language without instruction, while apes do not. (In fact, apes do not do so even with instruction.) The remark is also based on the assumption that the communication system used by apes is qualitatively different from human language; by "language ability" Chomsky means "human language ability." The analogy to flightless birds implies that learning to speak a language is like learning to fly-it is a property of the species. A species of birds that does not fly simply does not have the biological endowment to do so. An excellent expansion of this answer may be found in some of the works listed the references for Chapter 1, including Anderson 2008 and Bickerton 1990.
11. Song titles. Answers will vary. Some examples are:
"Somethin' 'Bout a Truck" - Kip Moore
"Why Ya Wanna" - Jana Kramer
"Lemme See" - Usher
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"(I Can’t Get No) Satisfaction" - The Rolling Stones
"Gonna Make You Sweat" - C \& C Music Factory
"We Gotta Get Out of This Place" - The Animals
"Ain't Too Proud to Beg" - The Temptations
"The Times They Are a-Changin'" - Bob Dylan
12. Understanding the reality of a person's grammar. Answers will vary. The essay might be along the lines of the following: Linguists who want to understand the reality of a person's grammar can learn by observing the utterances people make, and by deducing, perhaps by asking speakers, what kinds of utterances would not be made. The internal grammar must work so that it can produce all the possible sentences but none of the impossible ones. Linguists can hypothesize possible internal grammars, then see how well they perform at generating only the possible sentences. If the proposed grammar generates impossible sentences, or fails to generate possible ones, then it can be revised. In this way, linguists can develop increasingly sophisticated models of the internal grammars which speakers use. Linguists must take competence and performance into account so they distinguish between the possible The very, very, very, very, very, very, very, very, very old man arrived late, which is possible but nonoccurring, and *They swimmed in the pool, which may occur as a slip of the tongue but is nonetheless not possible as a well-formed sentence.
13. My Fair Lady. One example is "The rain in Spain stays mainly in the plain," which is an attempt to get Eliza to pronounce the "long a" sound (indicated with the $a i$ in rain) the way the upper classes pronounce it.
14. Bilingualism. Parts (a) and (b) are open-ended. For part (a), a student might observe that if the strong version of the Sapir-Whorf Hypothesis is true, then a bilingual person might be schizophrenic by having a dual world view forced on her by the two languages she knows. For part (b) a student might observe that an idiom such as the French mariage de convenance suggests that French speakers take marriage lightly. Students should consider both the strong and the weak versions of the Sapir-Whorf Hypothesis in answering.

Part (c) should be "no"; i.e., you can always translate, even if it means a lot of circumlocution. But there may be connotations, or shades of meaning that are not easy to translate, so translating le mot juste from French into 'the right word' doesn't capture the connotation of it being the perfectly right word for the occasion.
15. Pirahã. Answers will vary. Readings will show that the Pirahã people do have difficulties doing quantitative comparisons with numbers larger than 6 or 8 . However, in their culture there is little need for dealing with quantities in a precisely discrete manner, so it is questionable whether the language is influencing the culture, or vice versa. The same is true for color
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terms, and the student reader may also learn that there are few if any kinship relation terms. However, in this case as well there may be a cultural explanation in that the people are so heavily intermarried that such terms probably wouldn't make much sense.

## 16. British English words for woods and woodlands.

a. Answers will vary.
b. Answers will vary. Students may discuss the meaning differences freely. The following definitions were found on dictionary.reference.com, except for the one marked with * which was found on www.merriamwebster.com/dictionary:
bosky 'covered with bushes, shrubs, and small trees; woody'
bosquet 'a grove; thicket'
brush 'a dense growth of bushes, shrubs, etc.; scrub; thicket'
bush 'a large uncleared area thickly covered with mixed plant growth, trees, etc., as a jungle'
carr 'fen; low land that is covered wholly or partly with water unless artificially drained and that usually has peaty alkaline soil and characteristic flora (as of sedges and reeds) ${ }^{*}$
coppice 'a thicket of small trees or bushes; a small wood'
copse 'a thicket of small trees or bushes; a small wood'
fen 'low land covered wholly or partially with water; boggy land; a marsh'
firth 'a long, narrow indentation of the seacoast'
forest 'a large tract of land covered with trees and underbrush; woodland'
grove 'a small wood or forested area, usually with no undergrowth'
heath 'a tract of open and uncultivated land; wasteland overgrown with shrubs'
holt 'a wood or grove; a wooded hill'
lea 'a tract of open ground, esp. grassland; meadow'
moor 'a tract of open, peaty, wasteland, often overgrown with heath, common in high latitudes and altitudes where drainage is poor; heath'
scrub 'a large area covered with low trees and shrubs'
shaw 'a small wood or thicket'
spinney 'a small wood or thicket'
stand 'the growing trees, or those of a particular species or grade, in a given area'
thicket 'a thick or dense growth of shrubs, bushes, or small trees; a thick coppice'
timberland 'land covered with timber-producing forests'
weald 'wooded or uncultivated country'
wold 'an elevated tract of open country'
woodlot 'a tract, esp. on a farm, set aside for trees'
c. Answers will vary. An answer supporting the idea that English speakers have a richer concept of woodlands than speakers whose language has fewer words might argue that the plethora of words itself is evidence that the speakers have a rich concept of woodlands. An argument against this might say that a speaker's concept of woodlands probably had more to do with that speaker's personal experience with different types of woodlands, perhaps due to the geography of the area in which he lives, and less to the words available to describe those woodlands in his language. Following this argument, if a group of speakers of a language without many words for woodlands moved to a new area and were suddenly experiencing different types of woodlands on a daily basis and needing to distinguish between the varying types, these people would probably create new words in their language to fill that need, or perhaps "borrow" needed words from a local language.
17. English dge words. Answers will vary. A sample list of dge words follows. Neutral: edge, wedge, sledge, pledge, budge, fudge, and smidgeon. Unfavorable: curmudgeon, sludge, hodge-podge, and smudge. Students should discuss the meaning of budget. One possible observation is that budget is not necessarily unfavorable, although it does consist of limits. For example, if I had a budget of $\$ 10,000$ for my birthday party, I would find nothing unfavorable about that. Other potentially neutral dge words also include limits, like edge. Others could potentially have an unfavorable connotation like wedge, sledge, and budge which suggest a certain amount of force was used. But again, depending on the situation, that may be favorable or unfavorable. For example, I really wanted to get the book out from under the car's tire but it wouldn't budge seems negative, but I've decided to give you $\$ 100$ and my mind is made up; I won't budge could be positive. (Use a Google search for "words beginning with" or "words ending in" to see lists of such words: e.g., search for "words ending in dge.")
18. Euphemisms. Answers will vary. Below are three possible examples:
toilet $\rightarrow$ bathroom $\rightarrow$ restroom
arse $\rightarrow$ butt $\rightarrow$ bottom / backside
negro $\rightarrow$ black $\rightarrow$ African American
19. Cratylus Dialogue. Answers will vary. Those who find that Socrates' point of view was sufficiently well argued to support the thesis that the relationship between form and meaning is indeed arbitrary might point out Hermogenes' argument that "in different cities and countries there are

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different names for the same things; Hellenes differ from barbarians in their use of names, and the several Hellenic tribes from one another." In other words we can say that objects in the world are called different things in different languages and sometimes even in different dialects of the same language. On the other hand, answers that find that Socrates' point of view was not sufficiently well argued to support the thesis of arbitrariness might point out his summary of Protagoras' argument that "things are not relative to individuals, and all things do not equally belong to all at the same moment and always, they must be supposed to have their own proper and permanent essence: they are not in relation to us, or influenced by us, fluctuating according to our fancy, but they are independent, and maintain to their own essence the relation prescribed by nature." Put another way, this argument says that each item in the world has its own essence, and presumable name, independently of whether humans speaking any particular language call it by that name or not.
20. Pirahã. Answers will vary. Linguist Daniel Everett claims that Pirahã violates some of the universal principles hypothesized by linguists (especially Noam Chomsky). In particular he claims in his article in the journal Current Anthropology, Volume 46, Number 4, August-October 2005 that Pirahã lacks embedding, and therefore lacks recursion, which Chomsky predicts is a universal of all languages. Everett also claims that Pirahã has a dearth of terms for number, numerals, and quantification, an absence of color terms, an extremely simple pronominal system, no way to mark the perfect tense, and a simple kinship system. He also mentions other nonlinguistic features of the culture such as the absence of creation myths, the lack of individual or collective memory of more than two generations past, and the absence of most types of drawing. Everett makes the strong claim that the language of the Pirahã people is such as it is because of the culture of the Pirahã people. He claims his data show "striking evidence for the influence of culture on major grammatical structures, contradicting Newmeyer's (2002:361) assertion . . . that 'there is no hope of correlating a language's gross grammatical properties with socio-cultural facts about its speakers.'" Students should discuss how convincing they find the data and arguments Everett presents and may refer to the fact that Everett 2005 began a debate that is still ongoing. A retort to Everett 2005 by Nevins, Pesetsky, and Rodrigues may be found in the journal Language, Volume 85, Number 2, June 2009 and Everett's response to their retort may be found in the same volume.
21. The lexicon of the English language. Answers will vary. Those who argue that the lexicon of English should be counted as all the words in English, past and present, may point out that even if a word is no longer in use, it could be brought into use again if it were needed. Furthermore, although the word is no longer used, it still is an English word that has fallen into
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disuse, and not, e.g., a French word. Thus, it should be counted as part of the English lexicon. Those who argue instead that the lexicon of English should only be counted as the words currently in use may point out that it would be absurd to count words that are no longer used by any English speaker as part of the English lexicon, and if this faulty methodology were taken to its extreme we may count words from Proto-Indo-European as belonging to the English lexicon! Obviously, that would be ridiculous, but the line must be drawn somewhere. One logical place to draw that line could be that only those words currently used by any native speaker of English should be counted as being part of the (current) English lexicon.

## Chapter 2

1. Estimating your vocabulary. Answers to this question will vary depending on student, dictionary, etc. One example:
a. Count the number of entries on a typical page. They are usually bold-faced.

63 entries per page
b. Multiply the number of words per page by the number of pages in the dictionary.

63 entries $\times 1330$ pages $=$ approximately 83,790 main entries
c. Pick four pages in the dictionary at random. Count the number of words on these pages.

61 entries +62 entries +68 entries +61 entries $=252$ total
d. How many of these words do you know?

183 words known
e. What percentage of the total words on the four pages do you know?
approximately 73\%
f. Multiply the words in the dictionary by the percent you arrived at in (e).

I know approximately 61,000 English words.
2. English morphemes.
a. retro + act + ive
b. be + friend + ed
c. tele + vise
d. margin
e. en + dear + ment
f. psych + ology or psych $+\mathrm{o}+\operatorname{logy}$
g. un + palat + able
h. holi + day
i. grand + mother
j. morph + em + ic
k. mis + treat + ment
l. $\mathrm{de}+\mathrm{act}+\mathrm{iv}+$ at + tion
m. salt + peter
n. air + sick + ness
o. bureau + crat
p. demo + crat
q. aristo + crat
r. pluto + crat
s. demo + crac +y (Note that in this analysis, -crat becomes -crac before -y .)
t. demo + crat + ic
u. demo + crat + ic $+\mathrm{al}+$ ly
v. demo + crat $+i z+$ ation
w. demo + crat + ize
x. demo + crat $+i z+$ er
y. demo + crat $+i z+$ ing
z. demo + crat $+i z+$ ed
3. Identify morphological sequences.

A

## B

a. noisy crow (3) phrase consisting of adjective plus noun
b. scarecrow
(1) compound noun
c. the crow
(6) grammatical morpheme followed by lexical morpheme
d. crowlike
(5) root morpheme plus derivational suffix
e. crows
(4) root morpheme plus inflectional suffix
4. Identify morphological elements.
A

## B

a. terrorized (3) inflectional suffix
b. uncivilized
(1) free root
c. terrorize
(4) derivational suffix
d. lukewarm
(2) bound root
e. impossible
(6) derivational prefix
5. Zulu morphology.

## Part One

a. The morpheme meaning 'singular' is um-.
b. The morpheme meaning 'plural' is $a b a$-.

| c. | Zulu | English <br> -fazi |
| :--- | :--- | :--- |
| 'married woman' |  |  |
| -fani | 'boy' |  |
| -zali | 'parent' |  |
| -fundisi | 'teacher' |  |
| -bazi | 'carver' |  |
| -limi | 'farmer' |  |
| -dlali | 'player' |  |
| -fundi | 'reader' |  |

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## Part Two

d. The verbal suffix morpheme is $-a$.
e. The nominal suffix morpheme is $-i$.
f. A noun is formed in Zulu by suffixing the nominal morpheme and prefixing a singular or plural morpheme to the root. Schematically, this is: noun $=$ number prefix + root + nominal suffix
g. The root morpheme meaning 'read' is -fund-.
h. The root morpheme meaning 'carve' is -baz-.

## 6. Swedish morphology.

a. en
b. -or and -ar. If the basic noun ends in a vowel (or perhaps more specifically an $a$, we would need more data to differentiate), use -or for plurals, e.g., lampa / lampor, soffa / soffor. If the basic noun ends in a consonant, use -ar for plurals, e.g., bil / bilar, stol / stolar.
c. $-n$ and $-e n$. If the singular noun ends in a vowel (or perhaps more specifically an $a$, we would need more data to differentiate), use $-n$ for the definite, e.g., lampa / lampan, soffa / soffan. If the singular noun ends in a consonant, use -en for the definite, e.g., bil / bilen, stol / stolen.
d. $-n a$
e. The plural suffix comes before the definite suffix, e.g., bil-ar-na 'the cars.'
f. flickor 'girls'; flickan 'the girl'; flickorna 'the girls'
g. bussar 'buses'; bussen 'the bus'
7. Cebuano morphology.
a. The morpheme -in- is used to derive a language name from the word for a person from a certain country. Insert the morpheme -in-before the first vowel of the word. This has the effect that if the word begins with a consonant, -in- will be infixed after the first consonant of the word and if the word begins with a vowel, $i n$ - will be prefixed before the first vowel of the word.
b. In the case of vowel-initial words, prefixation. In the case of consonantinitial words, infixation.
c. sinuwid 'the Swedish language'; initalo 'the Italian language'
d. furanso 'a Frenchman'; unagari 'a Hungarian'
8. Dutch morphology.
a. To form an infinitive, add the suffix een to the root. Schematically, this is:

$$
\text { Infinitive }=\text { Root }+-e n
$$

b. To form a past participle, circumfix the discontinuous morpheme ge- $\ldots-d$ around the root. Schematically, this is:

$$
\text { Past Participle }=g e-+ \text { Root }+-d
$$

9. Swahili morphology.
a. $m$ - prefix attached to singular nouns of Class I
wa- prefix attached to plural nouns of Class I
$a$ - prefix attached to verbs when the subject is a singular noun of Class I wa- prefix attached to verbs when the subject is a plural noun of Class I
$k i$ - prefix attached to singular nouns of Class II
$v i$ - prefix attached to plural nouns of Class II
$k i$ - prefix attached to verbs when the subject is a singular noun of Class II vi- prefix attached to verbs when the subject is a plural noun of Class II
-toto 'child'
-tu 'person’
-su 'knife'
-kapu 'basket'
-fika 'arrive'
-lala 'sleep'
-anguka 'fall'
-me- present perfect tense
-na-present progressive tense
$-t a$ - future tense
b. The verb is constructed by stringing together from left to right (1) the verbal prefix indicating the noun class and the number of the subject, (2) the tense, (3) the verbal stem. Schematically, this is:

Verb $=$ Class prefix + Tense prefix + Verbal stem
c. (1) 'The child is falling.' = Mtoto anaanguka.
(2) 'The baskets have arrived.' = Vikapu vimefika.
(3) 'The person will fall.' = Mtu ataanguka.

## 10. Reduplication in Samoan.

## Part One

a. (1) 'they weave' = lalaga
(2) 'they travel' = savavali
(3) 'he sings' = pese
b. To form a plural verb form, reduplicate (copy) the penultimate (next to the last) consonant-vowel (CV) syllable and insert it before (or after) that syllable. Schematically, this is:
Singular verb form: Plural verb form:

$$
\begin{array}{cccccccccc}
\mathrm{C}_{1} & \mathrm{~V}_{1} & \mathrm{C}_{2} & \mathrm{~V}_{2} & \mathrm{C}_{1} & \mathrm{~V}_{1} & \mathrm{C}_{1} & \mathrm{~V}_{1} & \mathrm{C}_{2} & \mathrm{~V}_{2} \\
\mathrm{l} & \mathrm{a} & \mathrm{~g} & \mathrm{a} & \mathrm{l} & \mathrm{a} & \mathrm{l} & \mathrm{a} & \mathrm{~g} & \mathrm{a}
\end{array}
$$

## Part Two

1. partial reduplication (with some morpho-phonological changes)
2. 'kind of light' $=$ tho thong
3. 'a little shifty' $=k h o$ ? $k h u l$
4. 'fat' = luq
5. 'crazy' $=k h o t$
6. To form weakened adjectives of this type, reduplicate (copy) the first vowel of the base form and all the consonants before that vowel, then insert this copy before the first consonant of the base. Schematically, this is:
base adjective form: weakened adjective form:

| $\mathrm{C}_{1}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{2}$ | $\mathrm{C}_{3}$ |  | $\mathrm{C}_{1}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{1}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{2}$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| d | $\mathrm{C}_{3}$ |  |  |  |  |  |  |  |  |
| d | a | n | g |  | d | a | d | a | n |
| g |  |  |  |  |  |  |  |  |  |

base adjective form: weakened adjective form:

| $\mathrm{C}_{1}$ | $\mathrm{C}_{2}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{3}$ | $\mathrm{C}_{1}$ | $\mathrm{C}_{2}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{1}$ | $\mathrm{C}_{2}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{3}$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| k | l | o | h | k | l | o | k | l | o | h |

However, when the first vowel of the base form is $u$, then the copied form of the vowel will be an $o$ and a glottal stop will be added after the copied-and changed-vowel. (Note that this gives us evidence that the copy is in fact the prefixed form, whereas with the Samoan example in Part A we had no such evidence). Schematically, this is:
base adjective form:
weakened adjective form:

| $\mathrm{C}_{1}$ | $\mathrm{~V}_{1}=\mathrm{u}$ | $\mathrm{C}_{2}$ | $\mathrm{C}_{1}$ | $\mathrm{~V}_{1} \rightarrow \mathrm{o}$ | P | $\mathrm{C}_{1}$ | $\mathrm{~V}_{1}$ | $\mathrm{C}_{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| g | u | h | g | o | P | g | u | h |

11. Humorous definitions. Sample answers:
stalemate:
effusive:
tenet:
'husband or wife no longer interested' The definition results from incorrectly interpreting this word as a compound of stale and mate, where stale means 'no longer fresh' and mate is 'a husband or wife.'
'able to be merged' This word appears to be related to the stem fuse, meaning 'merge' and the suffix -ive, meaning 'having a tendency, character, or quality' such as 'creative' or 'explosive.'
'a group of ten singers’
This word has been interpreted as a combination of the number ten and the suffix -et, such as found in words relating to music, e.g., quartet and duet.
$\left.\begin{array}{ll}\text { dermatology: } & \begin{array}{l}\text { 'a study of derms' } \\ \text { The word ending -ology as in biology, meaning } \\ \text { 'study of,' has been recognized, but the definer clearly } \\ \text { has no idea what derm means. }\end{array} \\ \text { ingenious: } & \text { 'not very smart' } \\ \text { Here, the bound morpheme -genious has been } \\ \text { mistaken for genius, meaning 'very smart' and } \\ \text { interpreted as meaning 'not very smart' when the } \\ \text { negative morpheme in- is prefixed. }\end{array}\right]$
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aquapella: $\quad$ 'singing in the shower'
The "a ca" of a cappella, ‘singing without instrumental accompaniment,' is taken to be aqua meaning 'water.'
melancholy: 'dog that guards the cantaloupe patch' -choly is pronounced "collie" like the breed of dog that guards sheep, and melan- is pronounced "melon" of which a cantaloupe is a type, so a "melon-collie" is a guard dog for a type of melon.
plutocrat: 'a dog that rules' -crat is correctly interpreted as dealing with rule or governance, as in democrat and aristocrat. However, pluto- here has been misinterpreted as the dog, Pluto, from the Disney cartoons.
12. Structure of English words.
a. construal

disappearances

misconceive


b. undarkenable "able to be less dark"


undarkenable "unable to make dark"

13. Asymmetries.
a. Words
nondescript incognito unbeknownst impeccable impromptu nonplussed indomitable misnomer democrat

Nonwords
*descript
*cognito
*beknownst
*peccable
*promptu
*plussed
*domitable
*nomer
*crat
b. Answers will vary; examples include overwhelm (*whelm), cranberry (*cran), inept (*ept), antebellum (*bellum), misgivings (*givings), snowmageddon (*mageddon).
14. Composite words.
a. Star Trek
b. barnstorm
c. bathrobe
d. ballpoint
e. right-wing
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15. Eight-page book report.

A report of unspecified length on a book that is eight pages long


A report that is eight pages long on a book of unspecified length

16. Italian morphology.
a. The root morpheme meaning 'robust' is robust.
b. The morpheme meaning 'very' is -issimo.
c. (1) 'a robust wine' = un vino robusto
(2) 'a very red face' $=$ una faccia rossissima
(3) 'a very dry wine' $=$ un vino seccissimo
17. Turkish morphology.
a. $-e$
b. suffixes
c. 'from an ocean' = denizden
d. three (deniz-im-de)
18. Chickasaw morphology.
a. 1. 'to be tall' = chaaha
2. 'to be hungry' = hopoba
b. 1. past tense $=-t o k$
2. 'I' $=s a$ -
3. 'you' = chi-
4. 'he/she' $=\varnothing$ - (i.e., nothing)
c. 1. 'you are old' = chisipokni
2. 'he was old' = sipoknitok
3. 'they are old' = hoosipokni
19. Little-End Egglish.
i. The possessive morpheme is the prefix $z$-. The first person singular morpheme is the suffix -ego. The second person morpheme is suffix -ivo.
ii. 'my egg white' $=$ zvelego
iii. 'hard-boiled egg' = pe
iv. 'our' = -gogo
v. 'for' $=b o-$
20. Zoque.
a. $-u$
b. $-p a$
c. sohs- / sos- 'cook'
wiht- / wit- 'walk'
sibk- / sik- 'laugh'
ka?- 'die’
ken- 'look'
cihc- / cic- 'tear'
d. If the verb stem ends with two consonants, the first of those consonants (in this data that is always $h$-; more information would be needed to see whether this is limited to $b$ or whether it is true of all consonant clusters in this position), is deleted if the following tense suffix begins with a consonant (in this case, the present tense suffix -pa; again, more information would be needed to see whether this applied to other consonantinitial tense suffixes, if there are any). This process seems to function to avoid a sequence of three consonants.
21. Research exercise. Answers will vary. A sample answer follows.

Wictionary.com (accessed in June 2009) lists four English interfixes: i, $k, n$, and $o$ and defines interfix as "a vowel inserted interconsonantally betwixt morphemes of Latinate origin in order to ease pronunciation." Note, however, that this definition doesn't work for $k$ and $n$, which are not vowels. These four interfixes have three major functions, all of which seem to be different from that of the example given in the book. The $i$ and $o$ in Wictionary do seem to be used to ease pronunciation, with the $i$ being used for words of Latinate origin and the $o$ being used for words of Greek origin. The $k$ seems to be a purely orthographic "interfix" with examples like panic/panicky and politic/politicking given. The $n$ seems to have yet another use, and is said to be "frequently used with certain suffixes, such as -ian and -ese, when the base word ends in a vowel that is not readily elided," as in Javanese or Kafkanesque as opposed to Kafkaesque meaning 'resembling the literary work of Franz Kafka.' All of these uses seem true additions of a meaningless morpheme, whereas jack-i-box and man-o-war seem as though the vowels are potentially reduced forms of a once meaningful word, ( $i$ being reduced from in and $o$ being reduced from of). Wictionary.com reports that Norwegian also has an interfix, $-e$-.
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