

ROUND TWO

24 March 2015 2 Hours

PROBLEM BOOK

Answer as many of the questions as you can. Write your answers in the answer books provided.

Questions and credits

A. Possible Evenki words B. Finished with Finnish

- C. Phàasàa and Pháasaă
- D. By hand and foot in Murrinhpatha
- E. Georgia's always on my mind

10 pts
20 pts
20 pts
20 pts
30 pts





Question A: Possible Evenki words (10 pts)

All languages typically have restrictions on the kinds or number of consonant combinations that are possible in their words. Such restrictions on possible combinations of sounds in a word of a language are known as **phonotactic constraints**. For example, in English a word can begin with the consonant sequence *spl* or *spr*, but not *slr*. So we could say that *splem* and *sprem* are possible English words, even if they don't actually exist, but *slrem* could not be. The rules for combining consonants differ depending on the place in the word, e.g. at the start or at the end.

Examine the following Evenki words focusing on the phonotactic constraints that seem to apply to this language. Your task is to determine whether the list of forms following the examples are possible Evenki words or not given the restrictions suggested by the data on how sounds can combine to form words in Evenki.

Evenki is an endangered Tungusic language spoken by 28,000 people in Inner Mongolia and Heilongjiang in China. Words are shown in phonetic transcription, with letter values pretty much what you would expect. English translations are shown for information only, and have no bearing on the solution.

hunatpa	'the girl'	bira	'river'
girki	'friend'	amtan	'taste'
avsa	'box'	agdy	'thunder'
aglan	'meadow'	atyrkan	ʻold woman'
gurgakta	'moustache'	dasna	'roof'
dolbo	'at night'	bilga	'throat'
dylgan	'voice'	kilup	'club'
amnga	'mouth'	ollo	'fish'
tygde	'rain'	hulla	'blanket'
halka	'hammer'	anngani	'year'

Are the following forms possible Evenki words? Please tick the appropriate box in your answer book 'yes', 'no' or 'don't know' if you are unable to determine based on the data.

- (a) stilga
- (b) dongkit
- (c) bagdaka

trygan

(d) bargi

(e)

- (f) davla
 - (g) gydard
 - (h) anaran
 - (i) *urekent*
 - (j) gdollo

Question B: Finished with Finnish

Finnish is spoken by about five million people worldwide, mostly in Finland. It is unrelated to English, but closely related to Karelian and Estonian. One of the most obvious grammatical differences between Finnish and English is the large number of cases – distinct forms that a noun may take according to how it fits into the overall meaning of the sentence, used in places where English uses prepositions such as 'in' or 'of'. For instance, to say 'in Turku' they use what is called the 'inessive' ('in-being') case of the name *Turku*, and to say 'of Turku' they use the genitive, *Turun*. The challenge in this problem is to work out the rules for forming inessive and genitive forms. All the nouns in the table below are regular, and illustrate some (but by no means all) of the rules. English translations are given for your information, but have no bearing on the solution.

Pronunciation guide: *j* is pronounced like 'y' in *yes*

y is a vowel pronounced like u in French or \ddot{u} in German: like the 'ee' in seem but with lips rounded

 \ddot{a} is a vowel pronounced like the \ddot{a} in German, a long open 'e' a double letter indicates that the sound is pronounced long

Meaning	basic form	inessive	genitive
basket	rove	ropeessa	
bath	(a)	kylvyssä	
bit	bitti	bitissä	
coat	takki	takissa	takin
cupboard	(b)	kaapissa	(c)
dollar	dollari	dollarissa	dollarin
forest	metsä	metsässä	(d)
handle	ripa	rivassa	rivan
house	talo	talossa	talon
library	kirjasto	kirjastossa	kirjaston
material	vaate	(e)	vaatteen
medicine	lääke	lääkkeessä	
mother	(f)	äidissä	
need	(g)	tarpeessa	
rat	rotta	(h)	
stick	keppi	(i)	
street	katu	kadussa	
thinker	(j)	älykössä	älykön
Turku (a city in Finland)	Turku	(k)	Turun
vision	näky	näyssä	

Write the Finnish words (a) to (k) in your answer book.

Question C: Phàasàa and Pháasaă (20 pts)

Shan (native term: Phàasàa Tái, ພາສາລາວ) are Tai languages from Southeast Asia.

Shan is spoken in Myanmar and Thailand by about 3 million people, and Lao is spoken in Laos and Thailand by about 20 million. They are quite closely related, but are essentially mutually incomprehensible due to grammatical changes in both languages. Similarly, they are both written in writing systems that descend from the ancient Sanskrit script Brahmi, but these writing systems have rather different ways of marking the same sounds. The Shan writing system is a modification of the alphabet used by Burmese and Mon, whereas the Lao script is a streamlined form of the Thai alphabet.

Note: the diacritics (accent marks) above the Shan and Lao vowels in the English transcription of the native terms for the two languages shown above serve to mark tone. The doubled vowels indicate long vowels.

Shan	Lao	English	Shan	Lao	English
တွင်.	ທ້ອງ	belly	လိူတ်ႈ	ເລືອດ	blood
လုၵ်ႈ	ລູກ	child	လာင်.	ຊ້າງ	elephant
ພາດ,	ໝາກ	fruit	မိတ်ႈ	ນີດ	knife
ား	ข้า	large knife	သၢိဳ	ຊ້າງ	left
ဆိုဝ်.	ເນື້ອ	meat	ર્જ્ણ.	ນ້ຳ	mother's younger sibling
ဆွေဂ်;	ນອກ	outside	ຸ ຄາບໍ່,	ກາບ	pith
ႁၢၵၲႈ	ຮາກ	root	လိုုဂ်ႏ	<mark>ເ</mark> ຊືອກ	rope
လ်တ်,	ແດດ	sun	သိုဝ်.	i or	to buy
ရိုင်.	ຄ້ຽວ	to chew	လို့ရှိ	<mark>ເລື</mark> ອກ	to choose
တၢၵ်,	ຕາກ	to dry in the sun	ရွတ်,	ກອດ	to embrace
O.° JIL	¢0¢	to know	တွရ်,	ຕອກ	to pound

C1. In the data below determine what goes in the blanks in the Shan and Lao columns; write your answers in the answer book. (14 pts)

Question continues on next page

Shan	Lao	English	Shan	Lao	English
ဎဓိတ်,	ແຜດ	to roar	သွင်္ဂႈ	ຊອກ	to seek
တိရ်,	ແຕກ	to split	လုတ်,	ດູດ	to suck
လိုဆို.	ລົ້ ນ	tongue	ပိၵ်,	ປີກ	wing
မိ	ڵؠٙ	wood	ႁၢိဳ	(a)	bad
မွပ်,	(b)	to crouch	လၢၵိႏ	(c)	to pull
(d)	ແປດ	eight	(e)	ມ້າ	horse
(f)	ເປືອກ	rind			

C2. Of the symbols in the table below, which do you think represent consonants, which vowels, and which tones? Tick the appropriate box in the table in your answer book. (6 pts)

Shan	(a) 🖇	(b) ^E	(c)	ಞ
Lao	(d) 🏅	(e) 🕽	(f)	ν

Question D: By hand and foot in Murrinhpatha (20 pts)

Murrinhpatha is a language spoken by about 3,000 people in Australia's Northern Territory, and, unlike most Australian indigenous languages, is still being learned by all children in the community. It uses a number of sounds that are not found in English, shown in the spelling as *rr*, *nh* and *th*, and long, complex verbs that can express meanings that would take a whole sentence in English, as in the list below.

Abbreviations: [2s], [2n] and [1] mean 'two people who are siblings', 'two people who are not siblings' and 'one person' (i.e. 'singular'), respectively. So, for instance, if someone is speaking to two other people who are siblings, they would use the [2s] form.

manthap namnginthathap numamkathap thununganthap thunungamnginthathap nunungamkathap thanthap thamnginthathap narramkathap namlerrkperrk thunungamlerrkperrk nanthap mamnginthathap pumamkathap nunganthap nungamnginthathap punnungamkathap danthap damnginthathap parramkathap mamlerrkperrk nungamlerrkperrk manthap ngumamkathap ngununganthap ngunungamnginthathap ngunnungamkathap nganthap I tasted it. ngamnginthathap ngarramkathap mamlerrkperrk ngunungamlerrkperrk mamnginthathap

I touched it (by hand). You [2n] touched it (by hand). You [2s] touched it (by hand). You [1] touched it (by foot). You [2n] touched it (by foot). You [2s] touched it (by foot). You [1] tasted it (i.e. touched it by mouth). You [2n] tasted it. You [2s] tasted it. You [1] crushed it (by hand). You [1] crushed it (by foot). You [1] touched it (by hand). They [2n] touched it (by hand). They [2s] touched it (by hand). He/she touched it (by foot). They [2n] touched it (by foot). They [2s] touched it (by foot). He/she tasted it. They [2n] tasted it. They [2s] tasted it. He/she crushed it (by hand). He/she crushed it (by foot). He/she touched it (by hand). We [2s] touched it (by hand). I touched it (by foot). We [2n] touched it (by foot). We [2s] touched it (by foot). We [2n] tasted it. We [2s] tasted it. I crushed it (by hand). I crushed it (by foot). We [2n] touched it (by hand).

Question continues on next page

D1. In your answer book, fill in the gaps in the table below.

Murrinhpatha	English
(a)	touch
(b)	crush
-ngintha-	(c)
mamkurrk	I scratched it (by hand).
thunungamkurrk	(d)
(e)	We [2s] scratched it (by hand).
(f)	They [2n] scratched it (by mouth).
-thurr	to tread on something
(g)	We (my brother and I) trod on it.
	6

Question E: Georgia's always on my mind (30 pts)

Georgian is spoken by about four million people in Georgia, a country on the Eastern coast of the Black Sea, south of the Caucasus mountains and formerly part of the Soviet Union. The modern Georgian alphabet has been in use for about four centuries. Below are twelve Georgian sentences with their English translations. All of the verbs in the sentences below follow a regular pattern.

კარს ვაღებ	I am opening the door
სახლს აშენებ	You (sing) are building a house
ედუარდ წერილს იღებს	Eduard is receiving a letter
ფარდულს ვაშენებთ	We are building a barn
საჩუქარს აღებთ	You (pl) are opening a gift
ანდრია და მისი დედა პაკეტს იღებენ	Andria and his mother are receiving a package
ხაჭაპური გავაკეთე	I have made khachapuri ¹
კარი შეაკეთე	You (singular) have repaired the door
ანდრიამ პოემა დაწერა	Andria has written a poem
ლევან და მე აკტომობილი შევაკეთეთ	Levan and I have repaired the car
სადილი გააკეთეთ	You (pl) have made dinner
ედუარდ და ეკატერინემ წერილი დაწერეს	Eduard and Ekaterine have written a letter

Note 1. Khachapuri is a traditional Georgian dish of cheese-filled bread.

E1. Translate the following sentences into English (10 pts)

- (a) წერილს აღებენ
- (b) კომპუტერი შეაკეთეთ
- (c) ადამ მუზეუმს აშენებს
- (d) ისტორია დავწერეთ

E2. Translate the following sentences into Georgian (10 pts)

- (a) You (singular) are opening the barn.
- (b) I have repaired the car.
- (c) We are receiving dinner.
- (d) They have made a gift.

E3. Explain, as clearly and as concisely as you can, the main features of Georgian <u>grammar</u> that emerge from the data presented above. (Do **not** try to explain the alphabet or how the letters are pronounced, though it is OK to explain the grammar points using either Georgian or English letters, if you know how they are pronounced). (10 pts)

END OF PAPER