

ROUND ONE

February 2014 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.	Visible speech	Natalie Webber & Patrick Littell	10 pts
B.	As easy as 2-3-5	Harold Somers	10 pts
C.	Maori Ioanwords	Pat Littell	20 pts
D.	What's the time in Tallinn?	Babette Verhoeven	10 pts
E.	Turkish bath time	David Palfreyman	25 pts
F.	Kairak verb forms	Cindy Schneider	25 pts

Question A: Visible speech

(10 pts)

Alexander Melville Bell (father of Alexander Graham Bell) invented "Visible Speech" as a more detailed and systematic writing system for English, to help deaf students learn to pronounce spoken language more accurately.

A1: The following words in Visible Speech represent *boot, cogs, peaks,* and *tap,* but not in that order. Which is which? (4 pts)

- (a) DIQひ
- (b) **Blo**
- (d) afew
- **A2**. What English words are represented by the following?

(3 pts)

- (a) **B**[**C**
- (b) D[ひ
- (c) **DJE**
- **A3**. Write the following words in Visible Speech:

(3 pts)

- (a) keep
- (b) tease
- (c) spook

Question B: As easy as 2-3-5 (10 marks)

Study the following expressions in Japanese, then complete the translation of the phrases below. The η symbol represents a velar nasal, like the 'ng' in 'sing'.

ashi gohon five legs banana sambon three bananas bōru niko two balls empitsu nihon two pencils kami nimai two sheets of paper ishi saŋko three stones neko gohiki five cats risu nihiki two squirrels sara gomai five plates uma nitō two horses ushi santō three cows

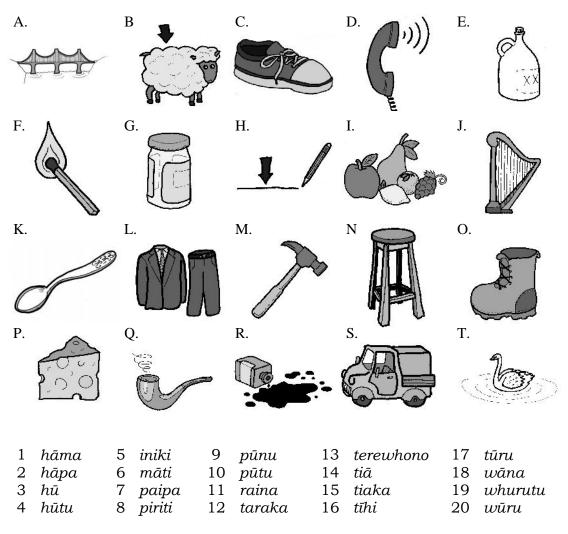
- (a) disuku three disks
- (b) endomame five peas
- (c) hankachi two handkerchiefs
- (d) kaba five rhinos
- (e) kyūri three cucumbers
- (f) morumotto two guinea pigs
- (g) nezumi three mice
- (h) ringo five apples
- (i) tsuna two ropes
- (j) $z\bar{o}$ three elephants

Question C: Maori Ioanwords

(20 pts)

The Maori language, or "te reo Māori", is the language of the Maori, the indigenous people of New Zealand. It is one of the official languages of New Zealand, along with English and NZ Sign Language, and over several centuries it has borrowed many English words. These words are often adapted to fit the sounds of the Maori language.

C1. Below are 20 Maori words that have been adapted from English words. In your answer book, match each word to the picture that illustrates it. The macron (line) over a vowel indicates that it is long. (5 pts)



C2. Many English loanwords in Maori deal with concepts introduced from the West. To what English words, indicating jobs or ranks, do the following Maori words correspond? (4 pts)

(a) hekeretari (b) pirinihehe (c) pirihimana (d) tiati

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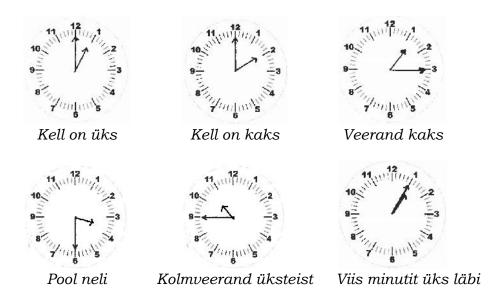
(3 pts)

- (a) Iharaira (b) Kiupa (c) Peina (d) Tiamani (e) Tiapana
- **C4.** For each of these English words, predict what the Maori loanword form would be. (8 pts)
 - (a) beef
 - (b) bull
 - (c) cart
 - (d) clock
 - (e) lease
 - (f) meat
 - (g) seal
 - (h) street
 - (i) time
 - (j) watch

Question D: What's the time in Tallinn? (10 pts)

Tallinn is the capital of Estonia, where about 1 million people speak Estonian, a non-Indo-European language closely related to Finnish.

The following expressions show how to tell the time in Estonian:



Here are some more numbers in Estonian:

6 kuus 7 seitse 8 kaheksa 10 kümme

D1. Translate the following into English words.

(5 pts)

- (a) Kakskümmend viis minutit üheksa läbi
- (b) Veerand neli
- (c) Pool kolm
- (d) Kolmveerand kaksteist
- (e) Kolmkümmend viis minutit kuus läbi

D2. Translate the following times into Estonian

(5 pts)

- (a) Quarter to nine
- (b) Quarter past four
- (c) Half past eleven
- (d) Five past seven
- (e) Half past twelve

Question E: Turkish bath time (25 pts)

Turkish is spoken by about 63 million native speakers located mainly in Turkey, with smaller groups in other parts of Europe, the Caucasus and Central Asia. Turkish words are built up by adding one or more endings (affixes) to a root word; the vowels in most word endings vary depending on the vowels in the root word ("vowel harmony").

Here are some sentences in Turkish, with their English translations. Words in [square brackets] are needed in English but have no equivalent in the Turkish sentence.

Arkadaşlarım şehirde mutlu. My friends [are] happy in [the] city. Baban İstanbul'u seviyor mu? Does your father like Istanbul?

Fakirler Ankara'dan İstanbul'a gelmek istiyor. Poor [people] want to come

from Ankara to Istanbul.

İstanbul en büyük şehir. Istanbul [is the] biggest city.

Eve geliyorlar. They come home.

"Gel, arkadaşımız ol", diyor. [She/he] says "Come [and] be our friend".

Evimizde büyük pencereler var. There are big windows in our house.

Pencereden atlilyoruz. We jump from [the] window. Bir ev almak mı istiyorsun? Do you want to buy a house?

E1. Translate the following into English.

(10 pts)

- (a) Baban büyük mü?
- (b) "Evimize gel", diyoruz.
- (c) Doktor olmak istiyor.
- (d) Fakir arkadaşımı seviyorlar mı?
- (e) Ankara'dan geliyoruz.
- **E2**. Translate the following into English; they have a new affix you have not seen before, but it does not indicate a different tense. (15 pts)
- (a) Geldiğimde "merhaba" diyorlar.
- (b) Fakir olduğunu diyorlar.
- (c) Baban geldiğimizden mutlu mu?
- (d) Geldiğin şehir büyük mü?
- (e) En mutlu olduğum şehir, İstanbul.
- (f) Fakir olduğumuz halde mutluyuz.

Question F: Kairak verb forms (25 pts)

Kairak is spoken by about 750 people on the New Guinea Islands, off the Papua New Guinea mainland. It is a member of the Baining (Papuan) language family.

The data below (slightly simplified) illustrate how Kairak speakers express the past, present, and future tenses with different types of verbs. Your job is to identify the patterns involved, then answer the questions below.

1/2/3 indicate 1st, 2nd and 3rd person; 'sg' is singular, 'pl' is plural, 'du' is dual, i.e. when two people are involved (translated here as 'both'). Kairak distinguishes masculine ('m') and feminine ('f'), and also human vs nonhuman.

Pronunciation notes: is a low central vowel sound a bit like the 'u' in (British English) 'cup'; η represents the 'ng' in 'sing'; represents the 'ny' sequence in 'canyon'.

Type	1	Example	tsup	'to	smoke'
 					

-JP =	manpie tet	op to billoile				
	present		future		past	
1sg	ŋut sup	I smoke	<i>пи ѕир</i>	I will smoke	<i>ŋa sup</i>	I smoked
2sg	it sup	you (sg) smoke	i sup	you (sg) will smoke	a sup	you (sg) smoked
3sg m	k tsup	he smokes	k sup	he will smoke	ka sup	he smoked
3sg f	yit sup	she smokes	yi sup	she will smoke	ya sup	she smoked
1du	unit sup	we both smoke	uni sup	we both will smoke	un sup	we both smoked
2du/ 3du	anit sup	you / they both smoke	ani sup	you / they both will smoke	an sup	you / they both smoked
1pl	urit sup	we smoke	uri sup	we will smoke	ut sup	we smoked
2pl	ŋ nit sup	you (pl) smoke	ŋ ni sup	you (pl) will smoke	ŋ ni sup	you (pl) smoked
3pl	rit sup	they smoke	ri sup	they will smoke	ra sup	they smoked
3pl non- human	ŋ rit sup	they (non- human) smoke	ŋ ri sup	they (non- human) will smoke	ŋ ri sup	they (non- human) smoked

Other type-1 verbs:

tsek 'to raise' tyes 'to dig' tv st mna 'to meet' tkur 'to show'

tsigut 'to try'

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Type 2: Example yam 'to	swing'
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	present		future		past	
1sg	<i>пи уат</i>	I swing	пи уат	I will swing	<i>па уат</i>	I swung
2sg	i yam	you (sg) swing	i yam	you (sg) will swing	a yam	you (sg) swung
3sg m	k yam	he swings	k yam	he will swing	ka yam	he swung
3sg f	yi yam	she swings	yi yam	she will swing	ya yam	she swung
1du	uni yam	we both swing	uni yam	we both will	un yam	we both
2du/ 3du	ani yam	you/they both swing	ani yam	swing you/they both will swing	an yam	swung you / they both swung
1pl	uri yam	we swing	uri yam	we will swing	ut yam	we swung
2p1	ŋ ni yam	you (pl) swing	ŋ ni yam	you (pl) will swing	ŋ n yam	you (pl) swung
3p1	ri yam	they swing	ri yam	they will swing	ra yam	they swung
3pl non- human	ŋ ri yam	they (non- human) swing	ŋ ri yam	they (non- human) will swing	ŋ yam	they (non- human) swung

Other type-2 verbs:

mon k 'to cook'

samen 'to speak out'

v l ŋ 'to kill' m nat m 'to sleep'

Type 3: Example *tet* 'to go'

-JF	·	10 00				
	present		future		past	
1sg	ŋa tet	I go	ŋa ret	I will go	ŋa met	I went
2sg	a tet	you (sg) go	a ret	you (sg) will go	a met	you (sg) went
3sg.m	ka tet	he goes	ka ret	he will go	ka met	he went
3sg.f	ya tet	she goes	ya ret	she will go	ya met	she went
1du	un tet	we both go	un ret	we both will go	un met	we both went
2du/3	an tet	you / they	an ret	you / they both	an met	you / they
du		both go		will go		both went
1pl	ut tet	we go	ut ret	we will go	ut met	we went
2pl	ŋ ni tet	you (pl) go	ŋ ni ret	you (pl) will go	ŋ ni met	you (pl) went
3 p 1	ra tet	they go	ra ret	they will go	ra met	they went
3 p 1	ŋ ri tet	they (non-	ŋ ri ret	they (non-	ŋ ri met	they (non-
non-		human) go		human) will go		human) went
human						

Other type-3 verbs:

t n 'to come' ton 'to go inside'

dud b t 'to set fire to the bush'

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F1. Translate the following into Kairak.

(8 pts)

- (a) I tried
- (b) They both dig
- (c) We cooked
- (d) They [the dogs] will kill
- (e) You (sg) sleep
- (f) He came
- (g) You (pl) will go inside
- (h) She sets fire to the bush
- **F2.** Translate the following into English:

(8 pts)

- (a) rit v st mna
- (b) ani kur
- (c) rat sek
- (d) η n same
- (e) ra mon k
- (f) un ton
- (g) arn
- (h) ut mud b t
- **F3.** Provide the translations as indicated.

(3 pts)

- (a) If yit sal means 'she gives birth', what is 'to give birth'?
- (b) If ra ru means 'they will put', translate 'he put'.
- (c) If unit nari means 'we both feel', what does ani nari mean?
- **F4.** Some of the forms are ambiguous, i.e. they do not fully distinguish the person or tense. Besides the ambiguity between 2nd and 3rd person dual ('you both' / 'they both'), which other forms are ambiguous? In your answer book, complete the following statements:

 (6 pts)
- (a) In type-1 verbs [verb form] can be either [tense] or [tense] with [person], and also
- (b) [verb form] shows the same ambiguity with [person].
- (c) In type-[x] verbs, [tense] and [tense] are the same for [which person].