Example 1 - just dictionary

Here are few sentences with their English translations. Translate given examples and write the rules that you observed from the given sentences.

Makeri kawo yaro.
 Yaro kawo makeri.
 Mace hura wuta.
 The smith brought the boy.
 The boy brought the smith.
 The woman started the fire.

4. Yarinye dawo. The girl returned.

5. Makeri kawo yarinye. The smith brought the girl.

Translate into English:

Mace kawo yaro.
 Makeri dawo wuta.
 The woman brought the boy
 The smith returned the fire

Translate from English:

The boy started the fire.
 The smith returned.
 Yaro hura wuta
 Makeri dawo

Rules observed:

Word order: SVO

Nouns not affected by position in the sentence, this is just vocabulary/dictionary

Words for boy (Yaro)and girl (Yarinye)may be related, but there's not enough data really to say this

Example 2 - word order

Here are few phrases with their English translations. Translate given examples and write the rules that you observed from the given phrases.

nimi a gbomu snake's mouse
 lende a kai man's ship
 kafa a kai man's shoulder
 lende a nimi mouse's ship
 ja a nimi mouse's eye
 keni a gbomu snake's tongue

Translate into English:

ja kai man's eye
 lende a gbomu snake's ship

Translate from English:

man's snake gbomu a kai
 snake's eye ja a gbomu

Rules observed:

"'s" = "a"

Genitive / ownership = "a"

Word order: thing possessed - owner - eg 1: mouse of the snake?

Example 3 - 1 rule

Here are few phrases with their English translations. Translate given examples and write the rules that you observed from the given phrases.

nimi a gbomu snake's mouse
 lende a kai man's ship
 kafa kai man's shoulder
 lende a nimi mouse's ship
 ja nimi mouse's eye
 keni gbomu snake's tongue

Translate into English:

ja kai man's eye
 lende a gbomu snake's ship

Translate from English:

3. man's snake gbomu a kai4. snake's eye ja gbomu [no 'a']

Rules observed:

"'s" = "a" in certain cases

Genitive / ownership = "a" when the noun is a body part, sometimes called inalienable possession

Word order: thing possessed – owner, cf English X of the Y -= Y's X

Example 4 - categories

Here are few phrases with their English translations. Translate given examples and write the rules that you observed from the given phrases.

1.	bangul yara	man
2.	bangun yabu	mother
3.	bangun waymin	mother in law
4.	bangu yila	feather
5.	bangun malayigara	scorpion
6.	bangu gurugu	drink
7.	bangun bima	snake
8.	bangul gubimbulu	waiter
9.	bangu garan	smoke
10	. bangun dunan	poison ivy
11	. bangu juga	sugar
12	. bangu diban	stone
13	. bangul binjirin	chameleon
14	. bangul gula	koala
15. bangul bargan kangaroo		

Fill in the blanks:

1.	bangunmugunanja	aunt
2.	bangumunga	sound
3.	bangul bayimbam	butterfly
4.	bangunamo	weapon
5.	bangulnalnga	boy

Rules:

Root word: bang (indefinite article or "a")

Endings:

ul ending- male, harmless un - female.dangerous (!) u - inanimate

Rough work table to see things clearly:

Root: bang

bang-ul yara	man
bang-ul gubumbulu	waiter
bang-ul binjirin	chameleon
bang-ul gula	koala
bang-ul bargan	kangaroo

bang-un yabu	mother
bang-un waymin	mother in law
bang-un malayigara	scorpion
bang-un bima	snake
bang-un dunan	poison ivy

bang-u yila	feather
bang-u gurugu	drink
bang-u garan	smoke
bang-u juga	sugar
bang-u diban	stone

Example 5 - endings for sg/pl

Here are few phrases with their English translations. Translate given examples and write the rules that you observed from the given phrases.

1.	ho tu cyriu onos	owner's donkey
2.	hoi tu emporu adelphoi	trader's brothers
3.	hoi ton onon emporoi	donkeys' traders
4.	hoi ton cyrion hyioi	owners' sons
5.	ho ton hyion dulos	sons' slave
6.	hoi ton dulon cyrioi	slaves' owners
7.	ho ton adelphon oicos	brothers' house
8.	ho tu oicu cyrios	house's owner

Translate from English:

traders' houses hoi ton emporon oicoi
 slave's donkeys hoi tu dulu onoi

Translate into English:

ho tu onu emporos donkey's trader
 ho ton dulon dulos slaves' slave

Rough table to see occurrence:

Ho tu house's owner
Ho ton sons' slave
Ho ton brothers' house
Hoi tu trader's brothers
Hoi ton donkeys' traders
Hoi ton owners' sons
Hoi ton slaves' owners

Rough work table to see things clearly:

cyri-u empor-u oic-u

cyri-on adelph-on dul-on hyi-on cyri-oi empor-oi adelph-oi hyi-oi

cyri-os on-os oic-os dul-os

SOLUTION:

Rules:

1. word order:

Ho / Hoi, tu / ton owner, thing owned

2. Ho is in phrases where the 'thing owned' is singular.

Hoi is in phrases where the 'thing owned' is plural.

- 3. Tu is in phrases where the owner is singular. Ton is in phrases where the owner is plural.
- 4. Endings on nouns
 - -u owner is singular
 - -on owner is plural
 - -oi thing owned is plural
 - -os thing owned is singular

Vocabulary:

donkey onowner cyritrader emporbrother adelphson hyislave dulhouse oic-

Example 6

Below are few sentences with their English translations. Write the rules and the dictionary from these examples and translate few sentences.

Hiiri teatteressa on.

Sikri poydalta hyppaa.

Hiiri poydalla istuu.

Sikri liiterissa istuu.

Hen jumps off table.

Bull sits on table.

Hen sits in workshop.

Bull jumps off workshop.

Translate:

Bull sits on theatre. Rooster jumps off theatre.

Solution

Translations:

Bull sits on theater. Hiiri teatterella istuu Rooster jumps off theater. Sikri teatterelta hyppaa

Dictionary:

hiiri = cow, bull sikri = hen, rooster teattere = theater poyda = table liiteri = workshop on = is (to be) hyppa = jumps (to jump) istuu = sits (to sit)

Rules:

Endings (these can go under dictionary or under rules):

-ssa = in -lta = off -lla = on

> Word order: who, where, what is doing (Alternative word order description: subject, location or object, verb)

• Word for location gets an ending for proposition (see above the list of endings with their meanings) or alternative phrasing is "how the object is used" (off table, on table)

• They don't distinguish between animal gender.
(Alternative: They use the same word for male and female.)

Rough work table to help see things clearly:

liiteri -ssa in workshop teattere -ssa in theatre liiteri -lta off workshop poyda -lta off table poyda -lla on table

Hen, rooster – Sikri cow, bull – Hiiri sits – istuu jumps – hyppaa is – on

Example 7

Below are few sentences with their English translations. Write the rules and the dictionary from these examples and translate few sentences.

Mi leg kabeag.This was clean dish.Mir Aneešt.This will be Anna.Mi ien šhuahti.This is green table.Mi ien kabešt.This will be clean table.

Mir kiel phaw. This is strict boy.
Mi kel šhuahtiešt. This will be green city.

Translate:

This is Dima.
This was strict Anna.
This was city.

Solution

Translations

This is Dima.

This was strict Anna.

This was city.

Mir Dima.

Mir Ane phaweag

Mi keleag

Dictionary

Ane = Anna
leg = dish
ien = table
kiel = boy
kel = city
kab = clean
šhuahti = green
phaw = strict
mi, mir = this

Rules

Endings (these can go under dictionary or under rules):

-eag = past tense
-ešt = future tense

Word order: mi/mir, noun, adjective (alternative descriptions for mi/mir are also correct: this, pronoun)

• mi is used for objects, mir is used for people

 The last word gets ending for tense (see above for the list). Present tense has no ending.

(alternative description for this rule: adjective gets the tense ending. If there is no adjective then the noun gets the ending. Other alternatives also exis

Rough work table to see things clearly:

Mi leg kabeag This was clean dish

Mi ien shuahti This is green table

Mi kel shuahtiest This will be green city
Mi ien kabest This will be clean table

Mir Aneest This will be Anna Mir Kiel phaw This is strict boy

Shuahti – is green
Shuahti -est - will be green
Kab -est - will be clean
Ane -est - will be Anna
Kab -eag - was clean

kel – city ien – table leg – dish kiel - boy phaw - strict shuahti – green clean – kab

Example 8 - symbol = word

Man wrote a letter.

Here you have some sentences written in foreign script and with Latin letters. Figure out and write any rules that you observe. what each foreign symbol means

Man is writing a letter. Woman is writing a letter.

↓ô M Man sees a letter.

Write with foreign symbols: Woman saw a letter.

Man saw a woman.

What kind of writing system is this (what each symbol represents), what is the direction of writing, are there any additional rules for symbols?

Rules

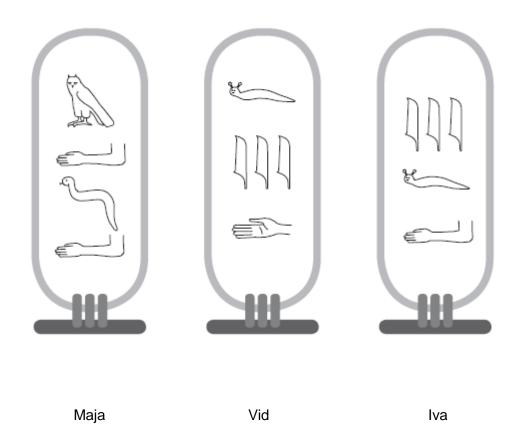
Writing system type: Symbol = word

Direction – L-R Word order: SVO

Present tense - hat ^, past tense big apostrophe/comma

Example 9 - symbol = letter

Here are written the names Iva, Maja, Vid. Which is which? What kind of writing system is this (what each symbol represents), what is the direction of writing, are there any additional rules for symbols?



Rules

Writing system: top to bottom (i tells you direction)

Each symbol reps a letter No additional rules?

Japanese Braille

This is another writing system problem, but in this case it is not an alphabet. The word karaoke, in tenji, it has four characters, which may lead us to think that each character represents a syllable (ka-ra-o-ke). Counting syllables of the other words can confirm that tenji is a *syllabary*.

Inside the syllable structure, however, we must understand how consonants and vowels are represented. From "karaoke" can see that **ka** and **ra** have the same upper-left dot (::), differing only on the second dot position; furthermore, **ka** and **ke** have the same second dot position (down-right – ::). This is confirmed for there is a word starting with **a** (atari) and word f indeed starts with ::. So the vowels are represented in the three dots at the upper-left part of the diagram:

```
a i u e o
```

The other three dots represents the variety of consonants. So the answers are:

1.		2.	
a. haiku	b. sake	g. karate	h. anime
c. katana	d. kimono		
e. koi	f. ata r i	3.	
		• • • • •	

Lalana Chinantec

This is another syntax problem, in a model we call *Rosetta Stone*: some sentences are presented with translations and, with that, we can understand part of the grammar of the language.

In this case, the word order is not so obvious. We can start by marking the substantives: corn (x4) and pineapples (x2). After this, we can easily identify the pronoun "my" (x3). We can even paint the words, like this:

kalakwa: kwi: li:? The beautiful corn grew.

miladö mo:h kya My pineapples have turned out well.

li:? kalane kwi: kwa: kya My tall corn yellowed beautifully.

dö kalaro:h mo:h ne kya My yellow pineapples ripened well.

kaladö kwi: The corn turned out well.

milakwa: kwi: The corn has grown

Then the verbs. From the last two sentences, it is obvious that they have internal structure: verbs in the past simple receive **kala**-; verbs in the present continuous receive **mila**-.

The adjectives come after the substantives, as in **mo:h ne** / pineapple yellow and **kwi: li:?** / corn beautiful. To use an adjective as a verb, one just have to use a verb prefix, as in **ne** – **kalane** / yellow – yellowed and **kwa:** – **kalakwa:** – **milakwa:** / tall – grew – has grown.

The adverb comes in the beginning of the sentence, as in **li:?** / beautifully and **dʒö** / well. (Don't mistake: the "well" in turned out well is part of the verb). Adverbs, adjective and verb nucleus have all the same form.

So the general word order is: (Adverb) Verb – Subject (Adjective) (Possessive)

And the answers are:

- 1. **li:?** is beautiful(ly). 2. **ro:h** is ripe.
- 3.
- a) kala**li:?** mo:h **dʒö** PAST-(become beautiful) **pineapples** (good/well)ADJ
- b) dʒö mɨlane mo:h ro:h kya (well)ADV [PRES.PERF-(yellow) corn (ripe)ADJ (my)]
- 4.
- c) The yellow corn has ripened.
- d) The corn grew beautifully.

Lalana Rough Work Example and Solution

Dictionary

kwi: corn

mo:h pineapples

kya my

li:? Beautiful and beautifully

dzo well

ro:h ripe

kwa: tall

Rules

Verbs:

Past simple receive prefix kala-

(kalakwa, kaladzö,kalaro:h)

Present continuous receive mila-

(mɨlakwa, mɨladzö)

Adjectives:

Rough Work Table:

Prefixes:

Kala-kwa: grew (past simple)

kwa: tall

Mila-kwa: has grown (present continuous) / growing

Kala-dzo turned out well (past simple)

dzo well

Mila-dzo have turned out well (present continuous) / done well

Kalaro:h ripened (past simple)

[ro:h would be "ripe"]

Kala-ne yellowed (past simpled)

ne yellow

[Mile-ne would be 'has yellowed' (present continuous)]

Adjectives come after the word they describe (kwi: li:? / corn beautiful) (mo:h ne / pineapple yellow)

Using adjective as a verb – add a verb prefix e.g (ne – kalane / yellow – yellowed) and (kwa/kalakwa/mɨlakwa – tall/grew/has grown)

Adverbs:

Come at the beginning of the sentence (li:? / beautifully) Word order:

(Adverb) Verb – Subject (Adjective) (Possessive)

Answers:

- 1. li:? is beautiful(ly). 2. ro:h is ripe.
- 3. a) kalali:? mo:h ദ്യാ PAST-(become beautiful) pineapples (good/well)ADJ
 - b) අප් mɨlane mo:h ro:h kya (well)ADV [PRES.PERF-(yellow) corn (ripe)ADJ (my)]
- 4. c) The yellow corn has ripened.
 - d) The corn grew beautifully.