

**Linguistics Competition**

All the problems are for all the students of the high school classes. The final score is the sum of all the results in all the problems, that are solved either entirely or partially.

For the last three high school grades it is sufficient to have entirely solved any two of the suggested problems, for younger students — any one.

**Problem 1.** Given are nouns and adjectives of Mangarayi<sup>1</sup> together with their plural stems (a plural stem in Mangarayi is a stem that can express plurality and some other related meanings):

gloss	noun or adjective	plural stem
lily	gurjag	gurjurjag-
young person	waɟima	waɟaɟima-
shell	d'adal	d'adadal-
mother's mother's brother's child	gaŋji	gaŋjaŋji-
old person	gabuji	gababuji-
child	wanɡiɟ	wanɡaŋgiɟ-

**Question 1.** Build the base forms from the following plural stems:

old person	bugbugbug-
father	jirirag-
mud	ɟalwalwaɟi-
egg	baŋɡaŋɡal-

**Question 2.** Build the plural stems of the following words:

uncle (mother's brother)	ɡambuɾa
dirty (of water)	ɡuraɟinɟi
knowledgeable person	ɟimɡan
wing	d'uɟ'u

Explain your reasoning.

**Note.** d', ɟ, ɟ, ɟ, ɟ, ɟ are special consonants of Mangarayi.

**Problem 2.** Given are numbers written in a special system which was in use in Ancient Greek until 3<sup>rd</sup> century B.C.

ΔΙ — 11	ΗΙΙΙ — 103
ΔΠΙ — 16	ΗΔΔΠΙΙΙΙ — 129
ΔΔΠΙΙΙ — 28	ΗΗΔΔ — 620
ΗΠΙ — 56	

**Question 1.** Write in numbers:

ΗΔΠΙΙΙ	ΗΗΔΔΔΠ	ΗΗΗΗΠ
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**Question 2.** Write using the system presented above:

24, 40, 91, 157, 555

Explain your reasoning.

**Problem 3.** Given are Romanized Chinese sentences and their English translations:

Tad gangbi haokan.	His pen is beautiful.
Ger haoting.	The song is beautiful.
Wo chi pingguo.	I eat an apple.
Women he cha.	We drink tea.
Wod gangbi bu xie.	My pen does not write.
Wod pingguo bu haochi.	My apple is not tasty.
Ni xue zhongwen.	You (sg.) study Chinese.
Zhongwen bu haoxue.	Chinese is not easy.
Nimend hanzi haoxie.	Your (pl.) hieroglyph is easy.
Wo kan niunai.	I look at the milk.

**Question.** Translate into Chinese:

Your (sg.) apple is not beautiful.	He listens to a song.
You (pl.) write a hieroglyph.	Their milk is not tasty.

Explain your reasoning.

**Note.** Be aware of the difference between *you (sg.)* referring to one person and *you (pl.)* referring to more than one person.

<sup>1</sup>Mangarayi is a language spoken by at most 50 people in the Arnhem Land peninsula in Northern Australia. It supposedly belongs to the Gunwinguan language family.