

Eighteenth International Linguistics Olympiad

Ventspils (Latvia), 19–23 July 2021

Individual Contest Solutions

Problem 1.

- **ena** 1, **wija** 2, **wido** 3, **wi** 4, **idibi** 5, **benomi** 6, **waroewo** 8, **ije** 9
- **rati** 10, **mepina** 20, **joka rati** 30, **mepija** 40, **rati beo** 50, **moeto** 60
- α -**ma** $10\beta = 10\beta + \alpha$ ($1 \leq \alpha \leq 9$, $1 \leq \beta \leq 5$)
- **ije** $10(\beta + 1) = \mathbf{ijema}$ 10β ($1 \leq \beta \leq 5$)
- γ **daemita moeto** $= 60 + \gamma$ ($1 \leq \gamma \leq 59$)
- **moeto** δ [**ma** γ **ka** $(\delta + 1)$] $= 60\delta$ [$+\gamma$] ($1 \leq \gamma \leq 59$, $2 \leq \delta \leq 5$)

- (a) **moeto waroewo** 480
ijema joka rati 39
moeto wido ma benomi ka wi 186

- (b) 1 **ena**
19 **ijema rati = ije mepina**
26 **benomima mepina**
104 **wima mepija daemita moeto**
292 **moeto wi ma wijama rati beo ka idibi**

Problem 2.

- **-ya** collectivity: **homa-** ‘juniper leaf’ + **-ya** \rightarrow **homa-ya-** ‘juniper branch’
- **N-:-N** (N = noun):
ha- ‘leaves’ + **k’yawe** ‘water’ \rightarrow **ha-:-k’yawe** ‘tea’
- **N-:-A** (A = adjective):
mu- ‘bread’ + **chikwa** ‘sweet (adj.)’ \rightarrow **mu-:-chikwa** ‘chocolate bar’

	singular	plural, substance
monosyllabic stem	-’le	-we
polysyllabic stem	-nne	-:we

- (a) 1. **mo:chikwa datda:we** — I. *peach trees*
2. **haya:we** — G. lit. *piles of leaves* (actually *planted fields [fields of plants]*)
3. **doko:ko mo’le** — H. *chicken egg*
4. **ma:chikwa** — C. *sugar*
5. **mu:chikwa** — J. *chocolate bar*
6. **mulonne, mu’le** — D. *loaf of bread*
7. **mowe** — E. *beads*
8. **ha:k’yawe** — B. *tea*
9. **doko:ko shiwe** — A. *chicken meat*
10. **mo:chikwa mulo:chikwa** — F. *peach pie*