

## 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
- $\alpha$ -**ma**  $10\beta = 10\beta + \alpha$  ( $1 \leq \alpha \leq 9$ ,  $1 \leq \beta \leq 5$ )
- **ije**  $10(\beta + 1) = \mathbf{ijema}$   $10\beta$  ( $1 \leq \beta \leq 5$ )
- $\gamma$  **daemita moeto**  $= 60 + \gamma$  ( $1 \leq \gamma \leq 59$ )
- **moeto**  $\delta$  [**ma**  $\gamma$  **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’
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	singular	plural, substance
monosyllabic stem	<b>-’le</b>	<b>-we</b>
polysyllabic stem	<b>-nne</b>	<b>-:we</b>

- (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*