

**Problem 4.** S = subject, O = object

$$\begin{aligned}
 & \bullet \begin{array}{|l|} \hline \mathbf{ni-}: \text{ 2nd person } \notin \{S, O\} \\ \wedge \text{ 1st person } \in \{S, O\} \\ \hline \mathbf{ki-}: \text{ 2nd person } \in \{S, O\} \\ \hline \end{array} + \text{root} + \begin{array}{|c|c|c|} \hline S & O & \\ \hline 1|2 & 3 & -\bar{a}(w) \\ 1 & 2 & -it-in \\ \hline 2 & 1 & -in \\ 3 & 1|2 & -ik(o|w) \\ \hline \end{array} + \\
 & + \begin{array}{|l|} \hline \text{1st person pl } \in \{S, O\} : -(\mathbf{n})\bar{a}n \\ \text{2nd person pl } \in \{S, O\} \\ \wedge \text{ 1st person pl } \notin \{S, O\} : -(\bar{a})w\bar{a}w \\ \hline \end{array} + \begin{array}{|l|} \hline \text{3rd person pl } \in \{S, O\} : -(\mathbf{w})ak \\ \hline \end{array} \\
 & \bullet \left. \begin{array}{l} \bar{e}- \text{ as } \dots \\ \emptyset- \text{ if } \dots \end{array} \right\} + \text{root} + \begin{array}{|c|c|c|} \hline S & O & \\ \hline 1|2 & 3 & -\bar{a}(w) \\ 3 & 1|2 & -ik(o|w) \\ \hline \end{array} + \begin{array}{|l|} \hline \{S, O\} \\ \hline \{2\text{nd person pl, 3rd person sg}\} : -y\bar{e}k \\ \{1\text{st person pl, 3rd person pl}\} : -y\bar{a}hk\bar{w}\bar{a}w \\ \text{etc.} \\ \hline \end{array}
 \end{aligned}$$

- (a) 26.  $\bar{e}$ -wāpamikoyēk — *as he sees you<sub>pl</sub>*  
 27. ninakinikonān — *he stops us*  
 28. kikakwēcimāwāw — *you<sub>pl</sub> ask him*  
 29. kiwīcīhitināwāw — *I help you<sub>pl</sub>*
- (b) 30. *if we ask them* — kakwēcimāyāhkāwī  
 31. *they challenge you<sub>pl</sub>* — kimawinēskomikowāwak  
 32. *they help me* — niwīcīhikwak  
 33. *you<sub>sg</sub> see them* — kiwāpamāwak  
 34. *I stop you<sub>pl</sub>* — kinakinitināwāw

**Problem 5.**

$$\bullet \left[ \begin{array}{c} 400 : \mathbf{kampwoo} \\ \alpha_1 \times 400 : \mathbf{kampw\bar{o}hii} \end{array} \alpha_1 \right] + \left[ \begin{array}{c} 80 : \mathbf{\eta kuu} \\ \alpha_2 \times 80 : \mathbf{\eta kwuu} \end{array} \alpha_2 \right] + \left[ \begin{array}{c} 20 : \mathbf{be\bar{n}jaaga} \\ \alpha_3 \times 20 : \mathbf{be-\alpha_3} \end{array} \right] + \\
 [10 : \mathbf{k\epsilon}] + [5] + [\beta], 2 \leq \alpha_{1,2,3} \leq 4, 1 \leq \beta \leq 4$$

• +: na

- |             |                       |
|-------------|-----------------------|
| 1: niḡkin   | -niḡkin → -ni         |
| 2: shuunni  |                       |
| 3: taanre   |                       |
| 4: sicyεere | -sicyεere → -ricyεere |
| 5: kaḡkuro  | kaḡkuro na → baa-     |

- (a) kampwōhii shuunni na kε 810  
 ηkuu na baataanre 88
- (b) 15 kε na kaḡkuro  
 109 ηkuu na beḡjaaga na baaricyεere  
 152 ηkuu na beetaanre na kε na shuunni  
 403 kampwoo na taanre  
 1534 kampwōhii taanre na ηkwuu sicyεere na kε na sicyεere