

# Twentieth International Linguistics Olympiad

Bansko (Bulgaria), 23–29 July 2023

## Individual Contest Solutions

### Problem 1.

	○	→
●→●	<i>I saw (it)</i>	<i>I see (it)</i>
↑ ●	<i>I was seen</i>	<i>I am being seen</i>

  

1st person sg	○	→	3rd person sg	○	→
●→●	-n'	in-	●→●	-y'	—
↑ ●	in-	in-	↑ ●	-∅	a-

1. →:

- $-CV \rightarrow -C'V$  ( $\text{ʃ} \rightarrow \text{ts}'$ );
- $-V_1CC'V_2- \rightarrow -V_1CV_XC'V_2-$ ,  $V_X = (V_1 = V_2) \mid \mathbf{a}$

2. ↑  
●:

- $-? \quad (-C'V \rightarrow -CV \mid \_ -?);$
- ○:  $(C)VVCV- \rightarrow (C)\bar{V}VCV-$

3. •  $\mathbf{n} \rightarrow \mathbf{m} \mid \_ \{\mathbf{p}, \mathbf{p}'\}$   
•  $\mathbf{n} \rightarrow \mathbf{\eta} \mid \_ \{\mathbf{k}, \mathbf{k}'\}$

4.  $\langle \mathbf{p}, \mathbf{t}, \mathbf{k} \rangle \rightarrow \langle \mathbf{b}, \mathbf{d}, \mathbf{g} \rangle \mid \{\mathbf{m}, \mathbf{n}, \mathbf{\eta}\} \_$

3.  $\mathbf{n}' \rightarrow \mathbf{\eta}, \mathbf{y}' \rightarrow \mathbf{y} \mid \mathbf{c}'\mathbf{v} \_$

(a)

	Form 1	Form 2	Translation
15.	netkay'	innetak'a	push
16.	kiri'y'	iggi'r'i	pull
17.	p'uhruy'	imp'uhur'u	make holes
18.	her'oy	inher'o	smooth out

(b)

39.	her'oŋ	<i>I smoothed (it) out</i>
40.	iniŋpa?	<i>I left</i>
41.	apla?	<i>it was opened</i>
42.	ŋur'uy	<i>it chose (it)</i>
43.	pirin'	<i>I saw (it)</i>
44.	iŋŋawats'a	<i>I plant (it)</i>
45.	k'aani?	<i>it was trapped</i>
46.	imp'ihana?	<i>I leap</i>
47.	ahika?	<i>it is being sewn, woven</i>
48.	inipla?	<i>I was bathed</i>