# SLOVENŠČINA NA DLANI

## SLOVENE IN THE PALM OF YOUR HAND

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA KULTURO

Univerza v Mariboru

EVROPSKA UNIJA
EVROPSKI
SOCIALNI SKLAD
NALOŽBA V VAŠO PRIHODNOST

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# Question Types in Current E-learning Materials for Slovene as a Mother Tongue

**METODY A FORMY PRÁCE VE VÝUCE MATEŘSKÉHO JAZYKA**

Olomouc, **4. 10. 2018**

| The theoretical part: | The empirical part: |
|---|---|
| ➢ the project:<br> *SLOVENŠČINA NA DLANI*<br> (*SLOVENE IN THE PALM OF YOUR HAND*),<br><br><br> ➢ in general: establishment of an interactive learning environment for Slovene (as mother tongue) language learning in elementary and secondary schools,<br><br><br> ➢ in particular: **elementary school**. | ➢ Existing freely accessible materials for learning Slovene from the 6th to the 9th grade of the elementary school;<br><br><br> ➢ the results of the analysis of current e-learning resources according to **question types** (10.118 tasks). |

3

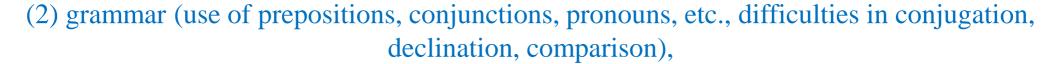**SLOVENŠČINA NA DLANI** (*SLOVENE IN THE PALM OF YOUR HAND*):

- was implemented in August 2017;

- to create an interactive learning environment for  Slovene  learning in elementary and secondary schools;

- to overcome the limitations of existing e-resources for Slovene learning – *no longer just a transfer of the printed workbooks into an electronic form*;

- focused on:
  - the review of existing freely accessible materials for learning Slovene from **the 6th to the 9th grade of elementary school**  and
  - the results of the analysis of current e-learning resources according to **question types**.

  ➢ The findings obtained show an **unbalanced representation of different question types**, with **a predominant type that is least popular among pupils.**

**The e-exercises will be divided into five content sets:**

(1) orthography (use of comma, capital letter,

words written together and apart, etc.),

(2) grammar (use of prepositions, conjunctions, pronouns, etc., difficulties in conjugation, declination, comparison),

(3) idioms, proverbs,

(4) textual corpus(reading and summarizing), and

(5) explanations of linguistic topics is added.

VEJICO STRESEM IZ ROKAVA

SLOVNICA V MALEM PRSTU

VEČ ZNAŠ, VEČ VELJAŠ

IZ MALEGA ZRASTE VELIKO

VSAK ZAKAJ IMA SVOJ ZATO

**SLOVENŠČINO POZNAM KOT LASTNO DLAN**

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# The existing E-Learning Resources for Learning Slovene in Elementary Schools

The review covered **ten sets of e-resources**, **textbooks, workbooks and additional interactive materials**, and there were analysed **10.118 tasks.**

1: *Gradim slovenski jezik* 6 – dodatno gradivo k učbeniku (Additional material to the Textbook, 6th grade);

2: *Gradim slovenski jezik* 6 – dodatno gradivo k delovnemu zvezku (Additional material to the Workbook; 6th grade);

3: *Gradim slovenski jezik* 6 – dodatno gradivo k samostojnemu delovnemu zvezku (Additional material to autonomous Workbook; 6th grade);

4: *Slovenščina v oblaku*: interaktivno gradivo za slovenščino v 6. razredu osnovne šole (Interactive material; 6th grade);

5: *Od glasov do knjižnih svetov* 6 (6th grade);

6: *Slovenščina*, Vaje za 6.–9. razred (Exercises: 6th–9th grade);

7: *Devetka.net* – Zbirka spletnih nalog (Collection of interactive tasks);

8: *E-učbeniki SIO.si*: 8. razred (8th grade);

9: *Projekt slovenščina* za 8. razred – Neumetnostna besedila (Part: Non-literary texts: 8th grade);

10: *E-učbeniki SIO.si*: 9. razred (9th grade).

# Methodology used

- E-resources have been reviewed and analysed according to **question types** that occur in all materials, i.e. textbooks, workbooks and additional interactive materials.

- Individual question types were checked, counted, and then percentages of all question types in the analysed materials were calculated.

# Within the analysis **21 different question types** were examined:

| | |
|---|---|
| 1 *Fill in the blank questions* | 10. *Editing questions* |
| 2 *Short answer questions* | 11. *Alternative questions* |
| 3. *Multiple choice questions (one correct answer)* | 12. *Alternative questions with argumentation* |
| 4. *Multiple answer questions (two correct answers)* | 13. *Open questions* |
| 5. *Multiple answer questions (more correct answers)* | 14 *Oral response* |
| | 15 *Gap-filling* |
| 6. *Multiple choice questions with a different degree of correctness* | 16. *Mark correct answer (of the multiple choice answers)* |
| 7. *Multiple choice questions with an incorrect answer* | 17. *Error Correction* |
| 8. *Multiple choice questions with the best answer* | 18. *Ordering questions* |
| 9. *Matching questions* | 19. *Reading* |
| | 20. *A type including in-class activities* |
| | 21. *A type involving other resources* |

9

# Question Types Analysis of Exercises in the Existing E-Learning Resources For Learning Slovene

- The tables **present** a set of tasks that represent **at least 70.0%** of all tasks in individual e-resources.

- Tasks representing **less than 4.0%** of tasks are not representative and therefore **not included** in the tables.

Table 1: *Gradim slovenski jezik* 6 (additional material to the Textbook; 6th grade)

Total: 77 tasks. The most common question types appear in 84.5% of all tasks, while other question types appear in 3.9% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 36 | 46.8% |
| Fill-in-the-blank questions | 12 | 15.6% |
| Multiple choice questions | 10 | 10.4% |
| Gap-filling | 5 | 6.5% |
| Alternative questions | 4 | 5.2% |

**Table 2:** *Gradim slovenski jezik* 6 (additional material to the Workbook; 6th grade)

Total: 160 tasks. The most common question types appear in 80.0% of all tasks, while other question types appear in 3.8% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 97 | 60.3% |
| Fill-in-the-blank questions | 13 | 8.1% |
| Open questions | 10 | 6.6% |
| Multiple choice questions | 8 | 5.0% |

**Table 3:** *Gradim slovenski jezik* 6 (additional material to autonomous Workbook; 6th grade)

Total: 188 tasks. The most common question types appear in 84.0% of all

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 111 | 59.0% |
| Alternative questions | 20 | 10.6% |
| Multiple choice questions | 14 | 7.5% |
| Open questions | 13 | 6.9% |

**Table 4:** *Slovenščina v oblaku*: (Interactive material; 6th grade)
Total: 68 tasks. The most common question types appear in 75.9% of all tasks, while other question types appear in 4.4% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Multiple choice questions | 10 | 14.7% |
| Mark correct answer | 9 | 13.2% |
| Open questions | 8 | 11.8% |
| Short answer questions | 7 | 10.3% |
| Reading | 5 | 7.4% |
| Ordering questions | 5 | 7.4% |
| Fill-in-the-blank questions | 4 | 5.9% |
| Multiple answer questions (more correct answers) | 4 | 5.9% |

**Table 5:** *Od glasov do knjižnih svetov* 6

<u>Total: 61 tasks.</u> The most common question types appear in 90.2% of all tasks, while other question types appear in 3.3% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 27 | 44.3% |
| An oral response | 21 | 34.4% |
| Alternative questions | 4 | 6.6% |
| Fill-in-the-blank questions | 3 | 4.9% |

**Table 6:** *Slovenščina*, Vaje za 6.–9. razred (Exercises, 6th–9th grade)
Total: 1566 tasks. The most common question types appear in 91.9% of all tasks, while other question types appear in 2.0% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 567 | 36.2% |
| A classroom activity–listening | 398 | 25.4% |
| Alternative questions | 344 | 22.0% |
| Multiple choice questions | 130 | 8.3% |

**Table 7:** *Devetka.net* (Collection of interactive tasks)

<u>Total: 2807 tasks.</u> The most common question types appear 83.0% of all tasks, while other question types appear in 3.1% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Multiple choice questions | 1003 | 35.7% |
| Short answer questions | 564 | 20.1% |
| Alternative questions | 404 | 14.4% |
| Fill-in-the-blank questions | 196 | 7.0% |
| Matching questions | 162 | 5.8% |

**Table 8:** *E-učbeniki SIO.si*: 8. razred (8<sup>th</sup> grade)

<u>Total: 1919 tasks.</u> The most common question types appear in 80.4% of all tasks, while other question types appear in 3.1% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 600 | 31.3% |
| Multiple choice questions | 290 | 15.1% |
| Alternative questions | 196 | 10.2% |
| Mark correct answer | 141 | 7.4% |
| Reading | 123 | 6.4% |
| Open questions | 104 | 5.4% |
| Fill-in-the-blank questions | 89 | 4.6% |

**Table 9**: *Projekt slovenščina* za 8. razred (Part: Non-literary texts; (8th grade))
Total: 749 tasks. The most common question types appear in 82.1% of all tasks, while other question types appear in 3.5% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 239 | 31.9% |
| Open questions | 84 | 11.2% |
| Reading | 77 | 10.3% |
| Alternative questions | 76 | 10.2% |
| A type involving other resources | 58 | 7.7% |
| Multiple choice questions | 49 | 6.5% |
| Alternative questions with argumentation | 32 | 4.3% |

**Table 10:** *E-učbeniki SIO.si*: 9. razred (9th grade)

Total: 2523 tasks. The most common question types appear in 83.1% of all tasks, while other question types appear in 3.0% or less.

| Question types | Number of tasks | Percentages (%) |
|---|---|---|
| Short answer questions | 860 | 34.1% |
| Multiple choice questions | 269 | 10.7% |
| Reading | 243 | 9.6% |
| Mark correct answer | 232 | 9.2% |
| Alternative questions | 212 | 8.4% |
| Fill-in-the-blank questions | 142 | 5.6% |
| Open questions | 138 | 5.5% |

**The most frequent types are:**

➢ *Short answer questions*:
- general in 30.72% (3108 tasks),
- in individual sources 10.3%–60.3%;

➢ *Multiple choice questions*
- general in 35.7% (1783 tasks),
- in individual sources 5.0%–35.7%;

➢ *Alternative questions*
- general in 10.52% (1064 tasks),
- in individual sources 5.2%–22.0%.

## The pupils' answers to the questionnaire

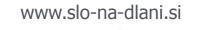- The **most frequent** question type is

*Short answer questions*

- is the least popular among elementary school population.

# Interpretation of Question Types Analysis

- The review covered **ten sets of e-resources**, and there were analysed **10.118 tasks**.

- The results outline **the shortage of the following question types**:
  - *Gap-filling,*
  - *Mark correct answer of the multiple choice answers,*
  - *Error Correction,*
  - *Ordering questions,*
  - *Alternative questions with argumentation,*
  - *Editing questions,*
  - *Multiple answer questions (two correct answers),*
  - *Multiple answer questions (more correct answers),*
  - *Multiple choice questions with an incorrect answer.*

# CONCLUSION

- All these are question types that are more than suitable for e-environments,

- they also enable the realization and achievement of higher taxonomic rates (use, analysis, synthesis),

- the results of the analysis and the teachers' perceptions will help us

- ✓ to design appropriate e-resources within the framework of the project *SLOVENŠČINA NA DLANI.*