


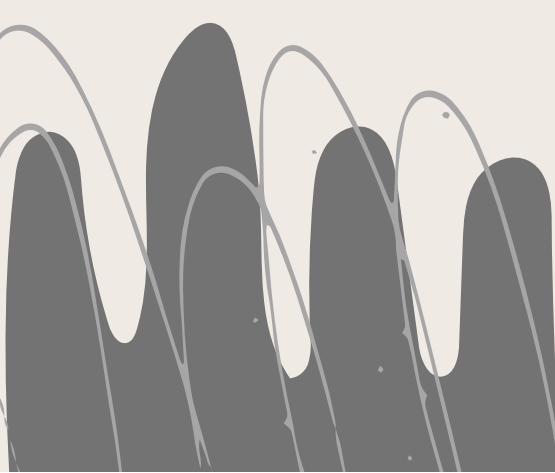


SPEND WISELY

Food for thought!

"It is thrifty to prepare today for the wants of tomorrow." (Aesop)

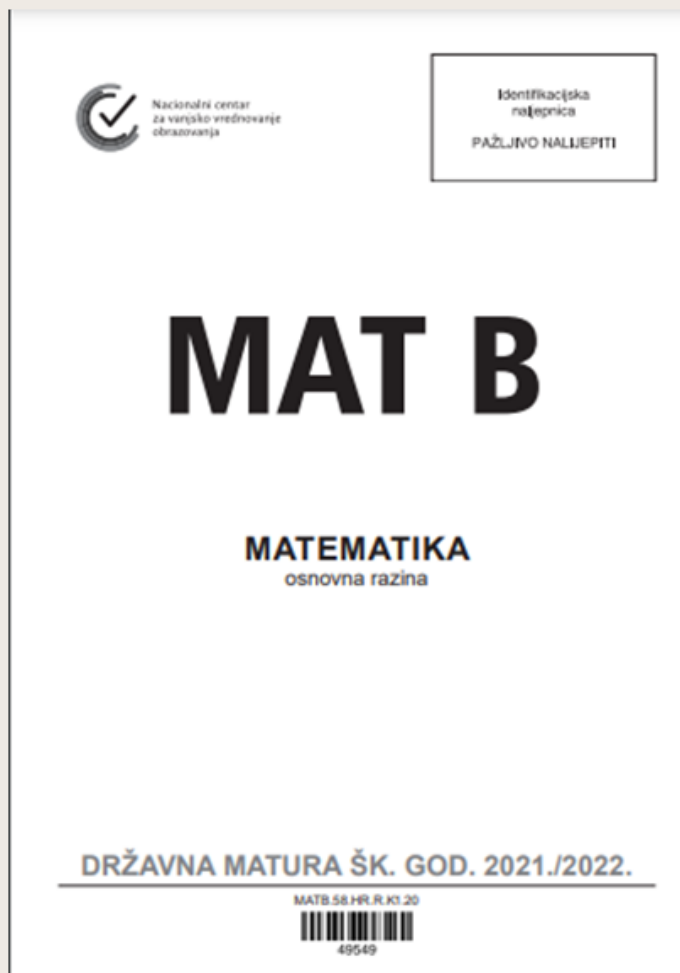
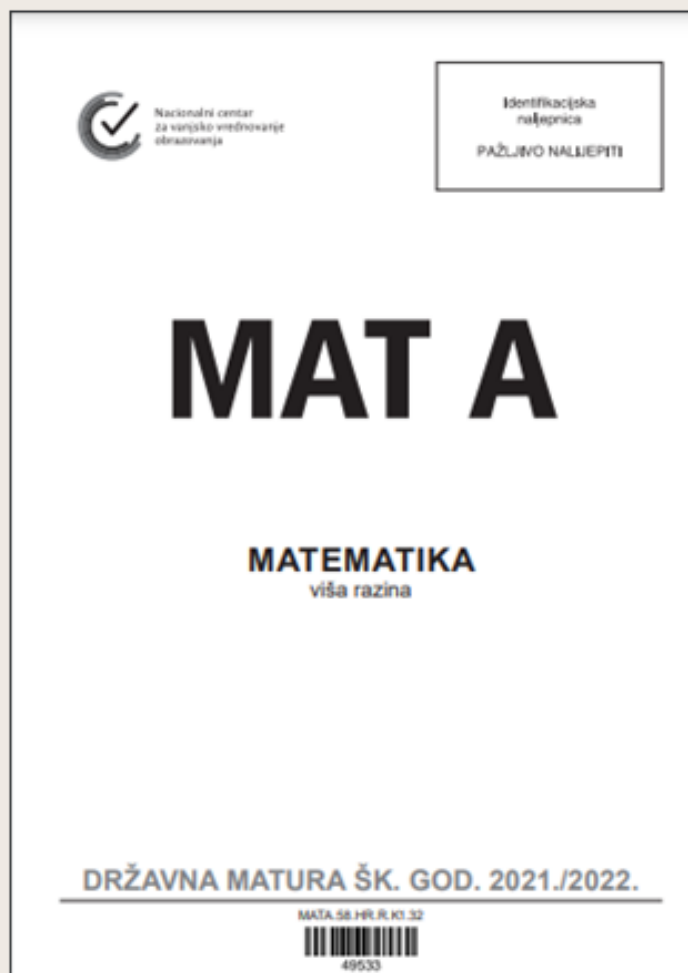
At the end of their high school education, all students in the Republic of Croatia take the state matura exam. The state matura exam is carried out by taking the compulsory and optional part of the exam. The exams of the compulsory part are Croatian, Mathematics and an optional foreign language. Exams can be taken at one of two levels, the higher and the basic level. As part of the optional part, the students choose the subjects they want, but they are limited to six elective subjects.



SPEND WISELY

State matura exams are conducted at the same time, with the same exam materials and in the same way for all applicants in the Republic of Croatia. Consequently, it is possible to compare the exam results, which makes the selection process for admission to higher education institutions more fair and transparent.

In total, the exams at the end of the 2021/2022 school year. 28451 pupils, 40% of which were high school students and 60% were students from vocational schools, sat the exams. 9622 students took the higher level of mathematics, and 17188 took the basic level.



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Higher matura exam (A level) includes:

- A booklet with 32 pages, i.e. 16 sheets
- Concept sheet with 4 pages, i.e. 2 sheets
- Answer sheet with one sheet

Basic matura exam (B level) includes:

- A booklet with 20 pages, i.e. 10 sheets
- Concept sheet with 4 pages, i.e. 2 sheets
- Answer sheet with one sheet



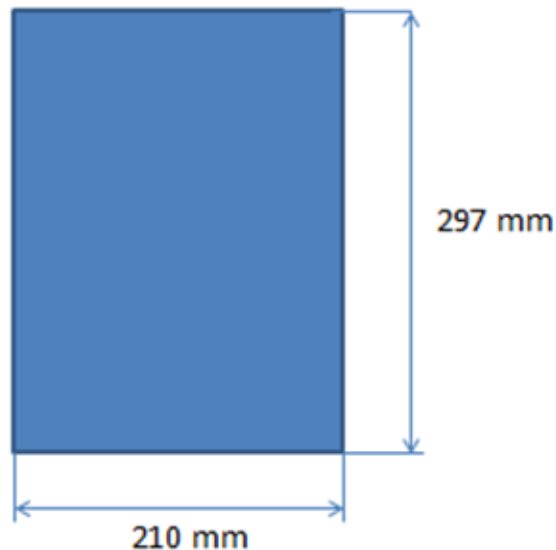
SPEND WISELY YOUR TASKS

1. CALCULATE HOW MANY SHEETS OF PAPER WERE USED FOR THE STATE MATURA EXAM IN MATHEMATICS IN THE REPUBLIC OF CROATIA IN THE 2021/2022 SCHOOL YEAR.

**2. IF ONE PACKAGE WITH 500 SHEETS COSTS 25 HRK (3.32 €),
HOW MUCH MONEY WAS SPENT?**

SPEND WISELY YOUR TASKS

3. WHAT IS THE MASS OF THE USED PAPER? REMEMBER, WE ARE USING THE "FABRIANO COPY 3 OFFICE" PAPER, WHOSE WEIGHT IS 80 G/M² OF A4 FORMAT PAPER AND THERE ARE 500 PIECES IN ONE PACKAGE.





SPEND WISELY YOUR TASKS

4. TO PRODUCE ONE TON OF PRINTED PAPER, 3.5 TONS OF WOOD ARE NEEDED. FROM ONE HECTARE OF FOREST IT IS POSSIBLE TO GET 6 - 20 TONS OF ORGANIC MATERIAL.

LET'S TAKE THE ARITHMETIC MEAN, I.E. 13 TONS OF ORGANIC MATERIAL, AND WITH THIS IN MIND, DETERMINE HOW MANY YEARS IT WOULD TAKE FOR THE 307-HECTARE MARJAN FOREST PARK TO DISAPPEAR DUE TO THE PRODUCTION OF PAPER FOR THE STATE MATURA EXAMS?

SPEND WISELY YOUR TASKS

5. DO YOU HAVE A SUGGESTION ON HOW TO SOLVE THIS PROBLEM? LIST THE PROS AND CONS OF YOUR SOLUTION.

USEFUL INFORMATION:

TO PRODUCE ONE TON OF PAPER, TWO TREES MUST BE CUT DOWN AND 240000 LITERS OF WATER AND 4700 KWH OF ELECTRICITY MUST BE CONSUMED.

BY RECYCLING PAPER, I.E. PRODUCING ONE TON OF PAPER FROM WASTE PAPER, NOT A SINGLE TREE IS NEEDED AND FORESTS ARE SAVED, THE AMOUNT OF WATER CONSUMED IS REDUCED BY OVER 99% TO ONLY 180 L, WHILE THE CONSUMPTION OF ELECTRICITY IS REDUCED BY 40% TO ONLY 2750 KWH. PAPER CAN BE RECYCLED UP TO 7 TIMES BECAUSE EACH RECYCLING PROCESS REDUCES THE FIBER SIZE.

Laptop price (lowest)

Laptop Lenovo Ideapad 3 82KR000SSC, 15/ATH/8/256



Laptop Lenovo Ideapad 3 82KR000SSC, 15/ATH/8/256

3101139480 • 82KR000SSC

2.719,00 kn 360,87 €

Dodatnih 5% uz promo kod

SPEND WISELY

YOUR TASKS

