

# CAREER COUNSELLING



# PRACTICAL APPROACH

## Lesson Plan

<b>Level, age of the students:</b>	14 – 18
<b>Subject:</b>	Real numbers without secrets. Revision or consolidation lesson.
<b>Subjects involved:</b>	Maths
<b>Aims:</b>	A student fluently uses numbers, knows methods of fast calculations, properties of numbers, their record. A student working under time pressure doesn't make mistakes.
<b>Suggested # of students per group:</b>	Individually
<b>Time of the main activity:</b>	10-15'
<b>Material:</b>	Crash test, crossword, mobile phone, computer, interactive board.
<b>Competences:</b>	Mathematical competence – logical and analytical thinking skills. Computer competence – skillful usage of a computer and other <b>multimedia</b> to take part in online cooperation.
<b>Preparatory actions if any:</b>	Reminding information about features of divisibility, including innovative division by 7. Introduction of fast multiplication of $XY$ by $XZ$ , where $Y+Z=10$ . Introduction of fast multiplication of $YX$ by $ZX$ , where $Y+Z=10$ . Introduction of exponentiation with 5 at the end. Reminding numerical notation in Roman system.



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<b>Expected results:</b>	A student fluently performs operations with numbers without usage of a calculator, exploiting interesting features of numbers.	
<b>Expected difficulties:</b>	Students haven't learnt multiplication table well enough, low counting efficiency without a calculator.	
<b>Follow up if any:</b>	Improvement of counting efficiency on every lesson.	
TIME	STRATEGY OF ACTIONS, PROCEDURE	METHOD, TOOLS
1-2'	Logging in on the platform.	Mobile phone, computer
5-10'	Solving crossword.	Platform
2'	Learning about results and getting to know predispositions.	Multimedia board

