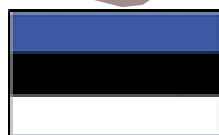
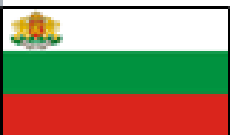
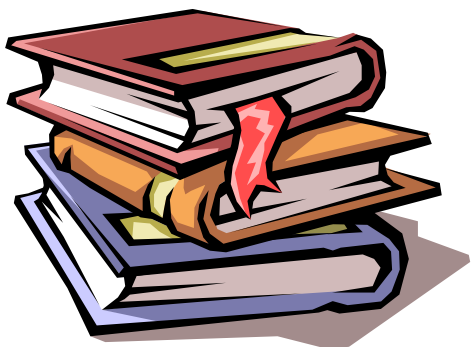
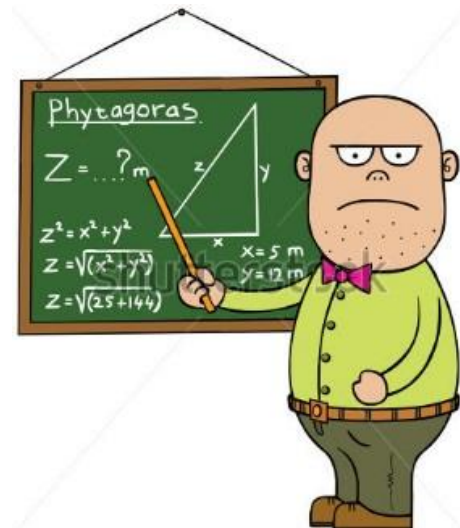


# Teaching Mathematics in Sveti Sedmochislenitsi Secondary School – Targovishte, Bulgaria



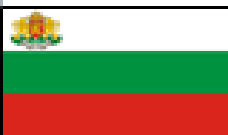
# Mathematics, 7th grade

## 34 weeks 4 times per week

1. Basic expressions
2. Basic geometrical figures
3. Equations
4. Equilateral triangles
5. Inequality
6. Parallelogram.  
Trapezium

$$\begin{aligned} (a+b)^3 &= (a+b)^2(a+b) \\ &= (a^2+2ab+b^2)(a+b) \\ &= a^3+a^2b+2a^2b+2ab^2+b^2a+b^3 \\ &= a^3+3a^2b+3ab^2+b^3 \end{aligned}$$

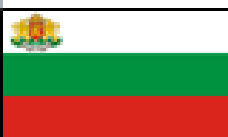
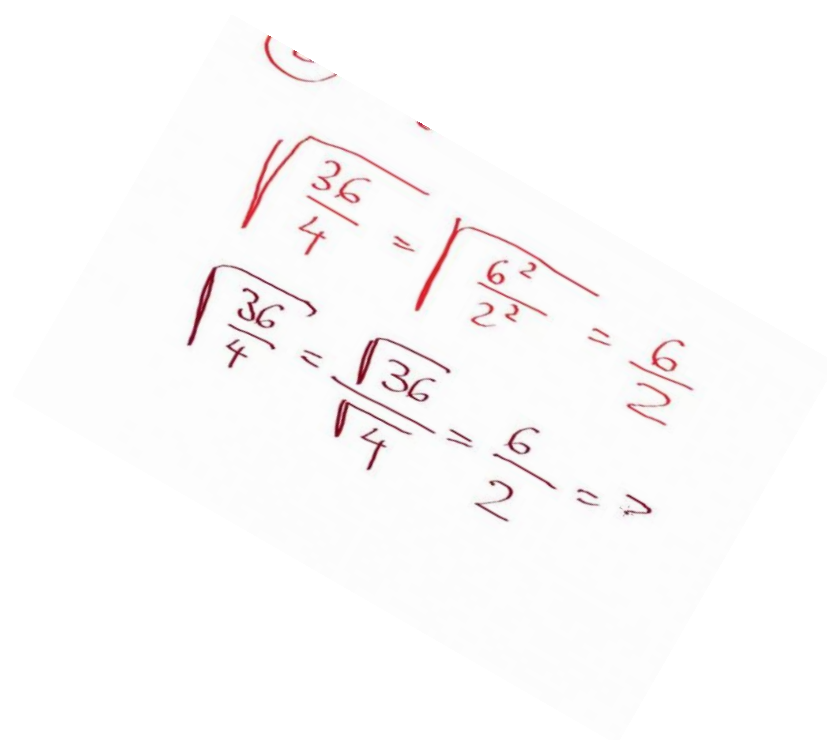
$x^3 = x^2 \cdot x$



# Mathematics 8 th grade

## 34 weeks 4 times per week

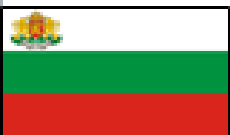
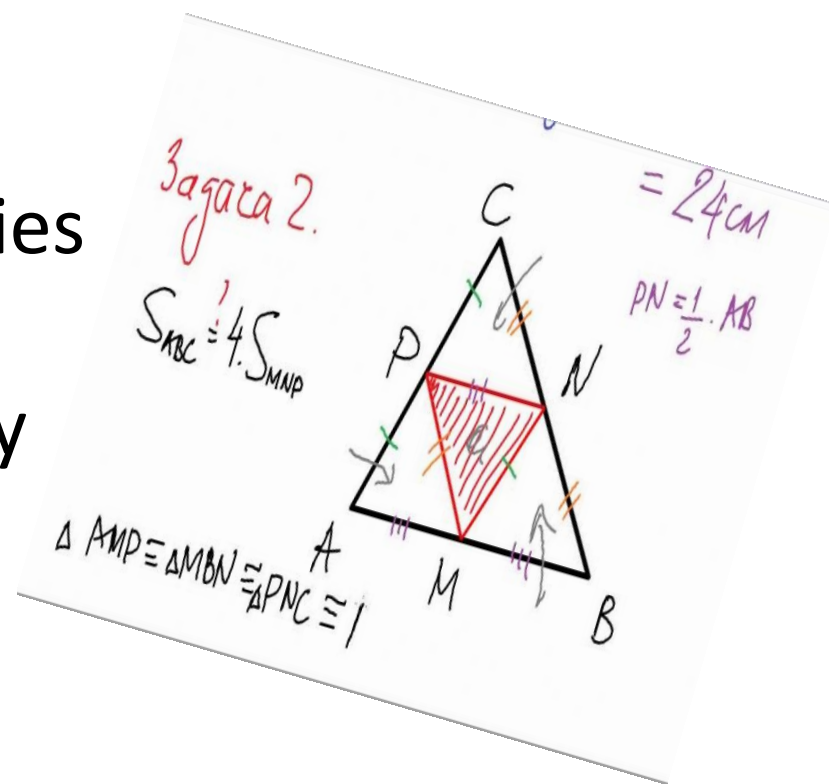
1. Square root
2. Quadratic equation
3. Vectors. Sumerian
4. Function



# Mathematics 8 th grade

## 34 weeks 4 times per week

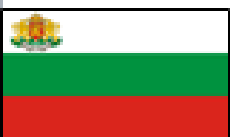
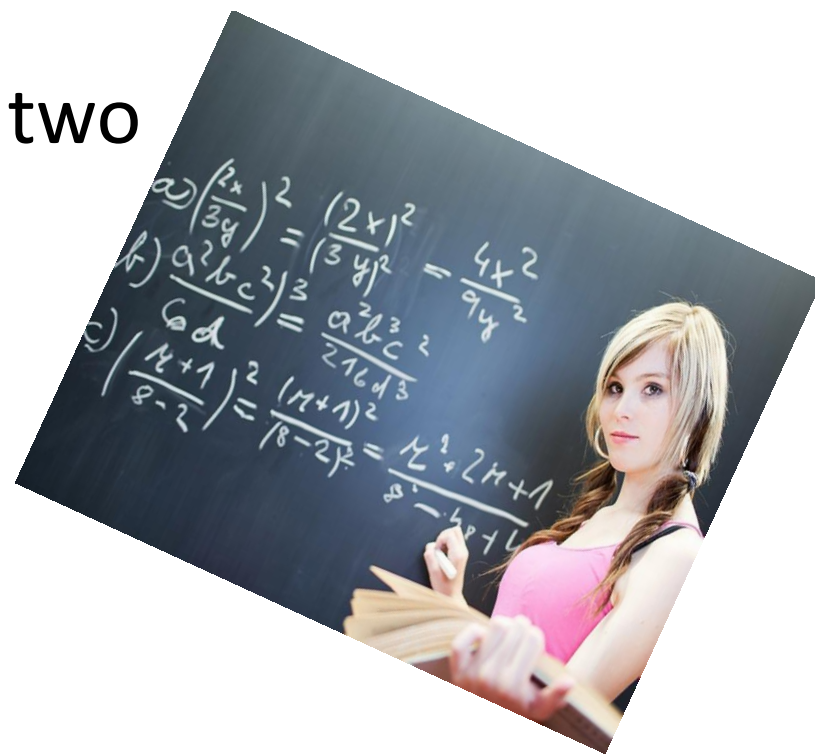
5. Similarity and congruence
6. System of linear equations with two unknown quantities
7. System of linear equations with one unknown quantity
8. Circle and polygon



# Mathematics 9 th grade PP

**36 weeks x 5,5 times(classes) = 198 times( classes)**

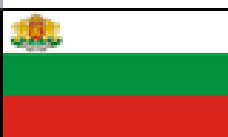
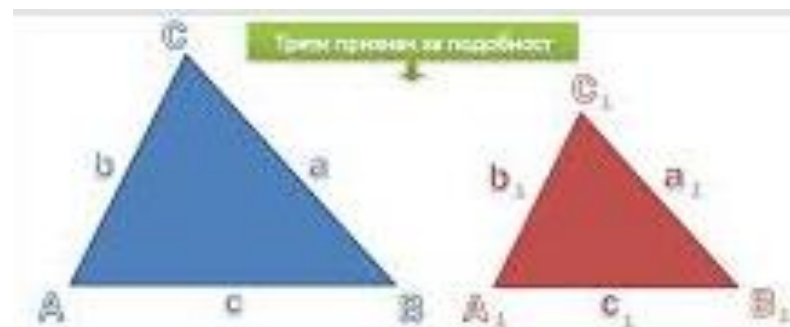
1. Rational expressions.
2. Rational equations.
3. System of equations with two unknown quantities.
4. Polynomial of variable quantity.
5. Irrational expressions.
6. Similarity.
7. Right-angled triangle.



# Mathematics 9<sup>th</sup> grade

**36 weeks x 3 times(classes) = 108 times(classes)**

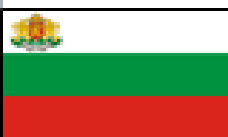
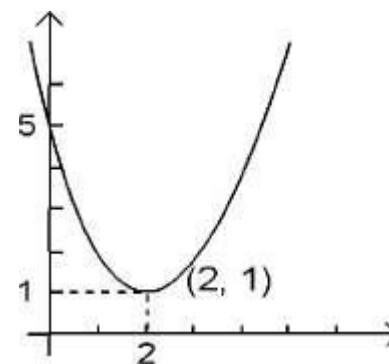
1. Rational expressions. Rational equations.
2. System of equations with two unknown quantities .
3. Irrational expressions.
4. Similarity.
5. Right-angled triangle.



# Mathematics 10 th grade - PP

**36 weeks x 6 times(classes) = 216 times(classes)**

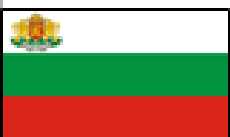
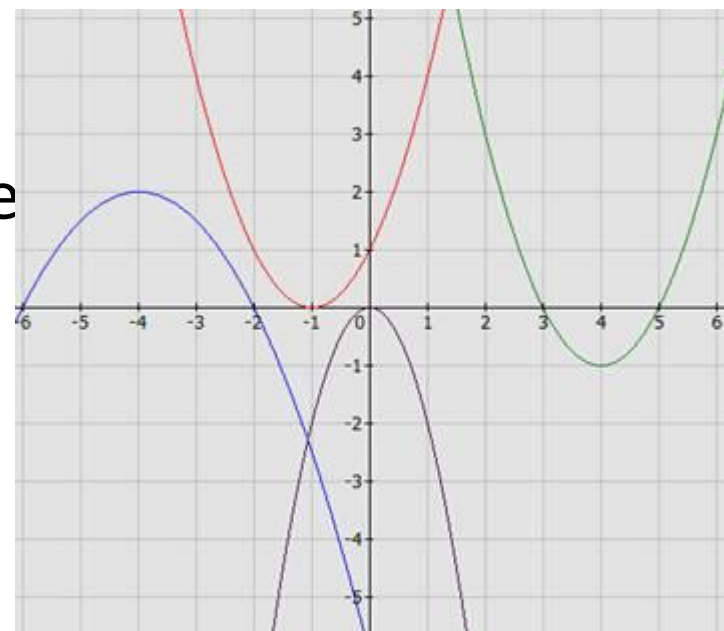
1. Quadratic function
2. Rational and irrational inequalities
3. Exponents
4. Trigonometric function of the angle
5. Triangle.Tetragon.
6. Computing the sides and angles of equal figures.
7. Combinatory.



# Mathematics 10<sup>th</sup> grade

**36 weeks x 3 times(classes) = 108 times(classes)**

1. Quadratic function
2. Rational inequality
3. Exponents
4. Triangle
5. Computing the sides and angle
6. Combinatory.

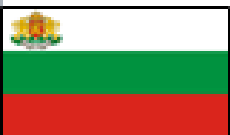
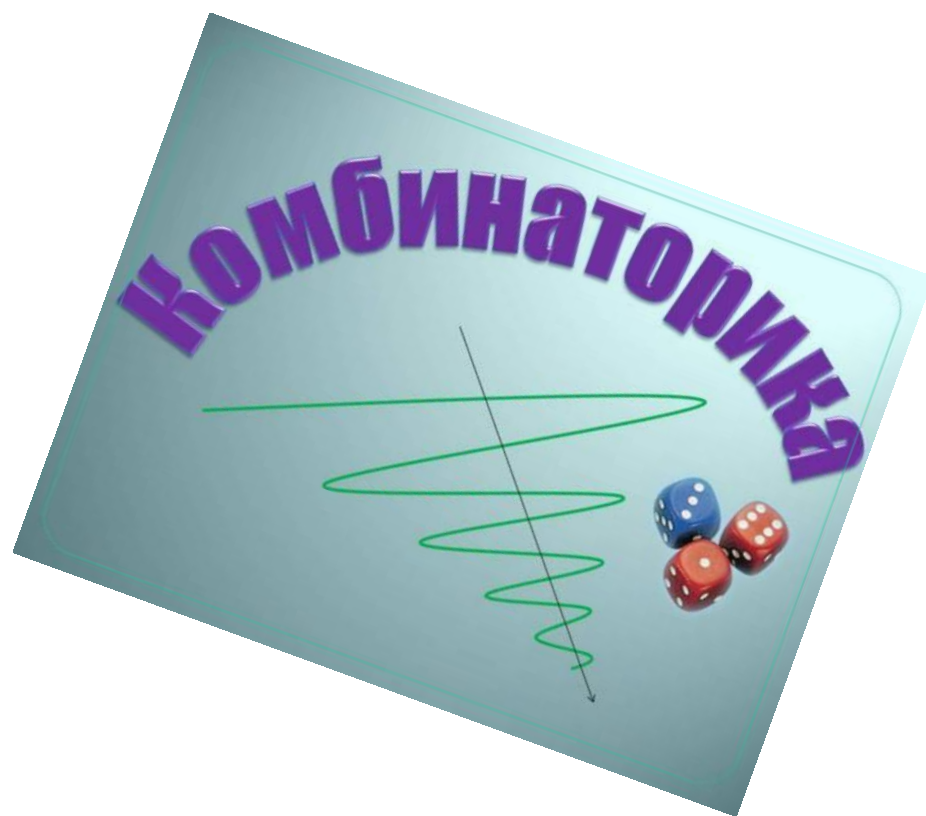




# Mathematics 11 th grade

**36weeks x 2 times(classes) = 72 times(classes)**

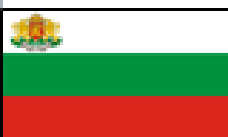
1. Sequence
2. Statistics
3. Trigonometric functions



# Mathematics 11 th grade – PP

**36 weeks x 5 times(classes) = 180 times(classes)**

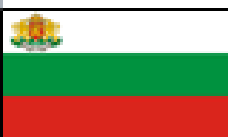
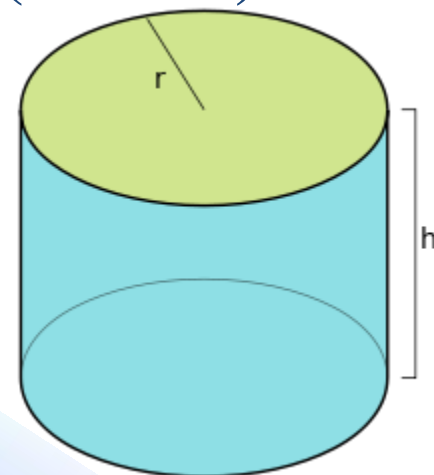
1. Sequence
2. Statistics
3. Exponential and logarithmical function
4. Trigonometric function. Trigonometric equations and inequalities. Applications.
5. **Stereometry. Polyhedron.**



# Mathematics 12 th grade- PP

**31 weeks x 7 times(classes) = 217 times(classes)**

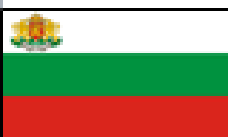
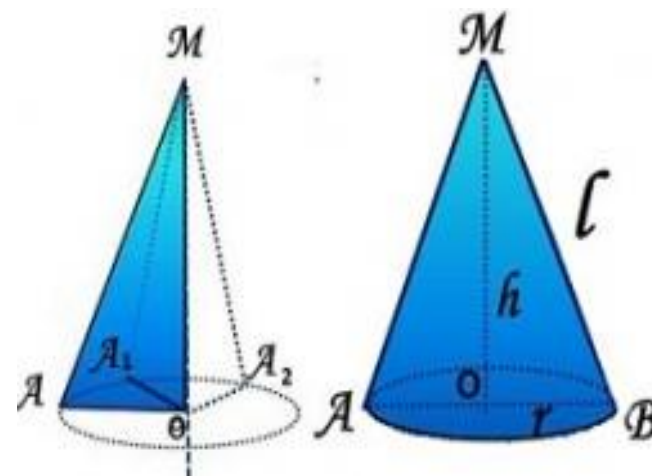
1. Elements of mathematical analysis
2. Rational figures
3. Statistics
4. Complex numbers
5. Analytic geometry



# Mathematics 12 th grade

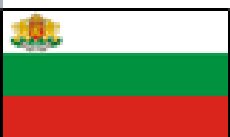
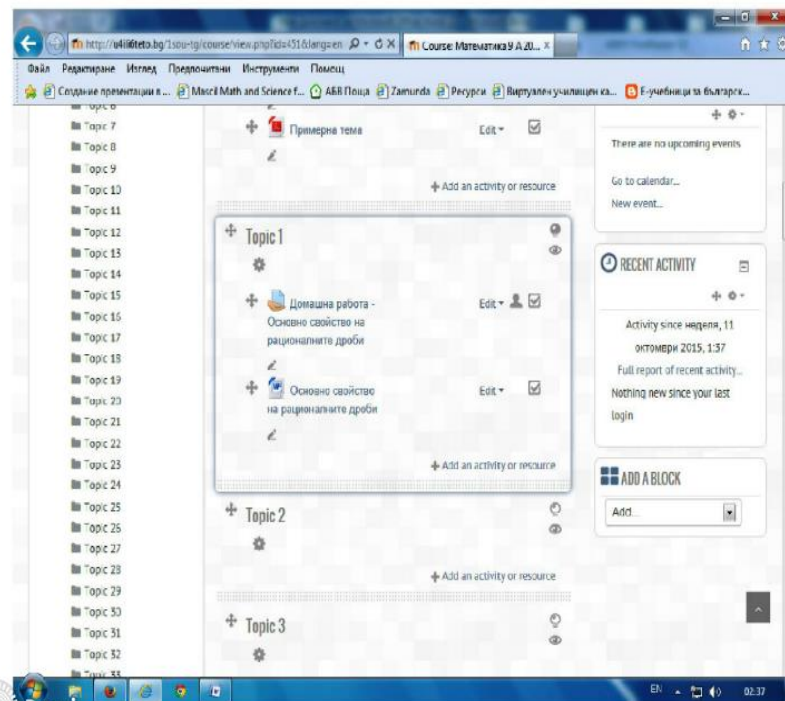
**31 weeks x 2 times(classes) = 62 times(classes)**

1. Solid geometry. Position of points, straight lines and planes in the space.
2. Polyhedron
3. Rational figures
4. Exponents. Logarithm
5. Equations and inequalities
6. Functions.






# Teachers use learning platform MOODLE

Moodle is a learning platform designed to provide educators, administrators and learners with a system to create personalized learning environments. Moodle provides the most flexible tool-set.



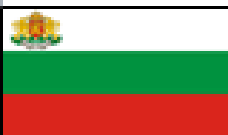
Moodle allows educators to create online courses, which students can access as a virtual classroom. A typically Moodle home page will include a list of participants and a calendar with a course schedule and list of assignments. Other Moodle features include online quizzes, forums, where students can post comments and ask questions, and links to other Web resources.

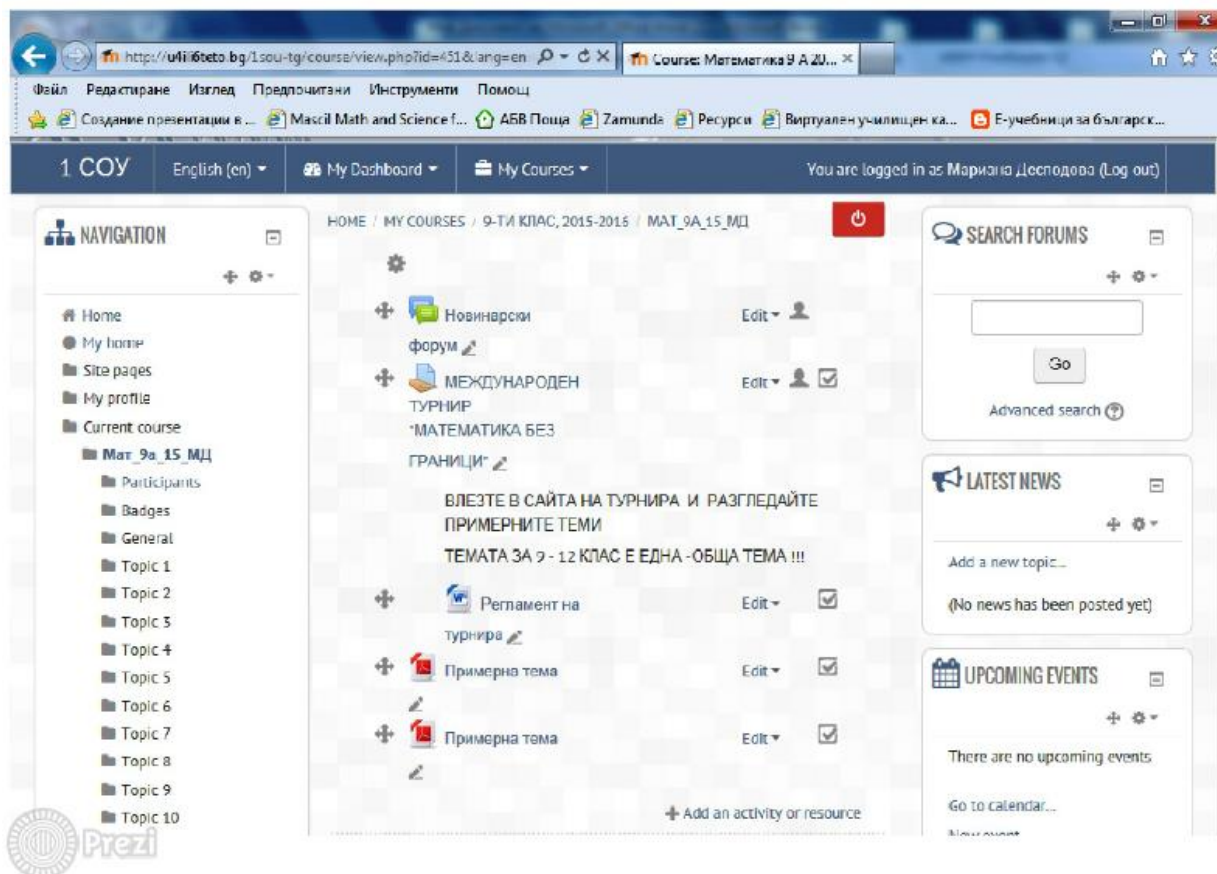
## Тема 2

-  дробни числа
-  десетични дробни - четене и писане
-  Умножение и деление на десетична дроб с 10, 100, 1000
-  Събиране на десетични дробни
-  Свойства на събирането
-  Зависимости на сбора и разликата от компонентите им
-  Упражнение върху събиране и изваждане на десетични дробни
-  Упражнение върху събиране и изваждане на десетични дробни - първо ниво
-  Упражнение върху събиране и изваждане на десетични дробни - второ ниво

## Тема 3

-  Умножение на десетични дробни. Свойства на умножението
-  Зависимости на произведението и частното от компонентите им
-  Задачи за упражнение върху темата "Десетични дробни"
-  Задачи за упражнение върху темата "Десетични дробни" 2
-  Тест за упражнение върху темата "Десетични дробни"
-  Тест за упражнение върху темата "Десетични дробни" 2

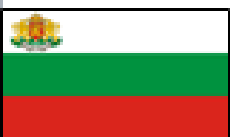
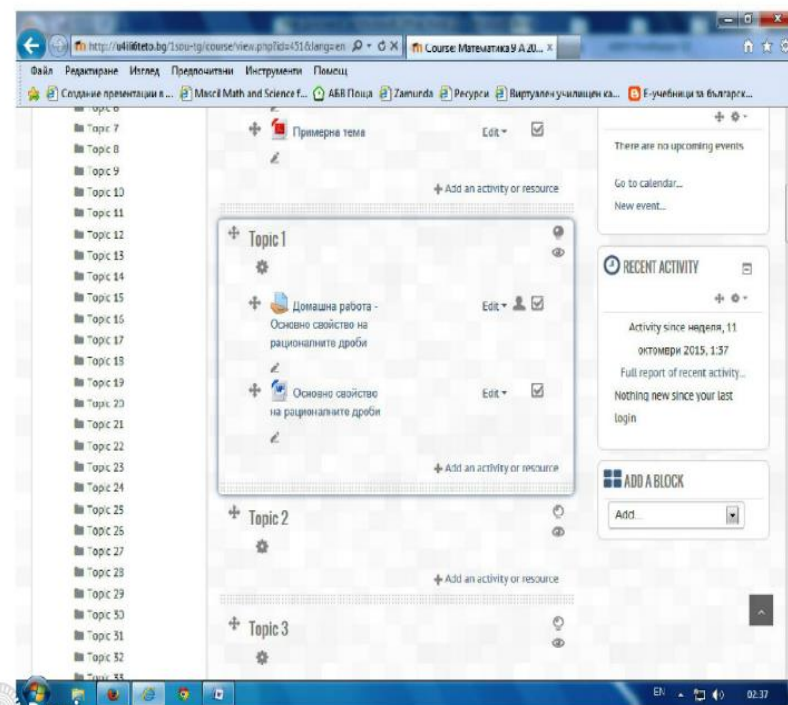




The screenshot shows a Moodle course page for 'Математика 9 А 2015-2016'. The browser address bar shows the URL: <https://u1116eto.bg/1sou-tg/course/view.php?id=431&lang=en>. The user is logged in as 'Марияна Десподова'. The page features a navigation sidebar on the left with a tree view of the course structure, including 'Home', 'My home', 'Site pages', 'My profile', and 'Current course' (Mat\_9a\_15\_MД) with sub-items like 'Participants', 'Badges', 'General', and 'Topic 1' through 'Topic 10'. The main content area displays a forum titled 'МЕЖДУНАРОДЕН ТУРНИР "МАТЕМАТИКА БЕЗ ГРАНИЦИ"'. It includes a welcome message: 'ВЛЕЗТЕ В САЙТА НА ТУРНИРА И РАЗГЛЕДАЙТЕ ПРИМЕРНИТЕ ТЕМИ. ТЕМАТА ЗА 9 - 12 КЛАС Е ЕДНА - ОБЩА ТЕМА !!!'. Below the message are three forum topics: 'Регламент на турнира', 'Примерна тема', and another 'Примерна тема'. The right sidebar contains three widgets: 'SEARCH FORUMS' with a search box and 'Go' button; 'LATEST NEWS' with an 'Add a new topic...' button and a note that no news has been posted yet; and 'UPCOMING EVENTS' with a note that there are no upcoming events and a 'Go to calendar...' link. A 'Prezi' logo is visible in the bottom left corner of the screenshot.



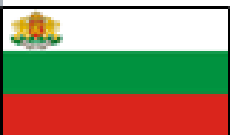
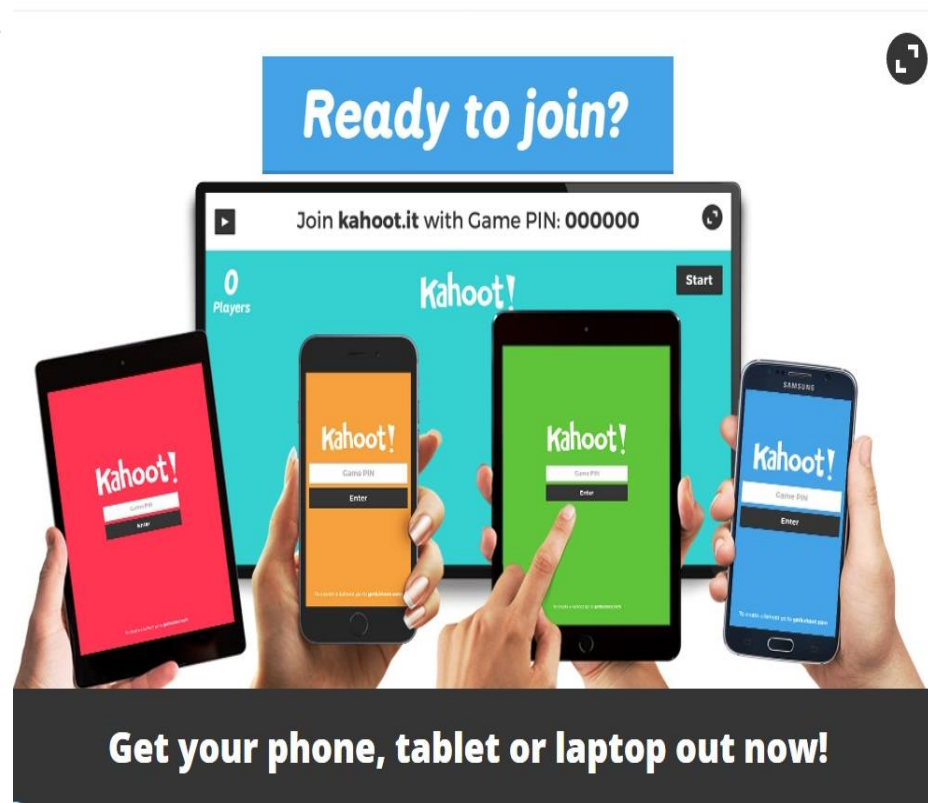
Doing tests in Moodle for homework is easy and quick. You can watch for educational progress of the students.





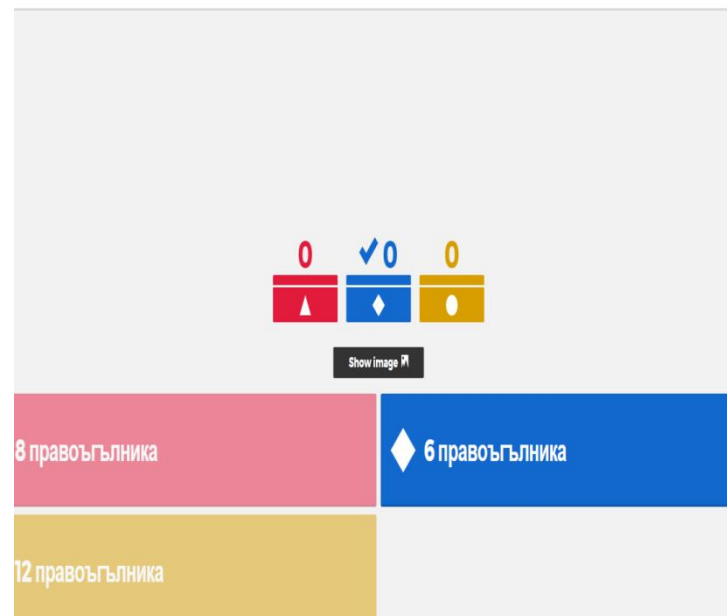
# Kahoot!

Kahoot! is a game-based learning platform that leaves your students begging for more. With a refreshingly new take on introducing a subject, formative assessment and deep discussion Kahoot! initiates conversation, leaving students on the edge of their seats. Kahoot! provides deep learning through creation of educational games, and new understanding through playing them.



- Enter your question
- Enter up to 4 answer options and choose the correct one(s)
- Embed an image into your question or You Tube video

Правоъгълен паралелепипед е геометрично тяло, изградено от .....



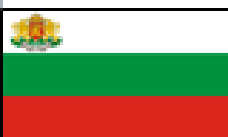
0 ✓ 0 0

Show image

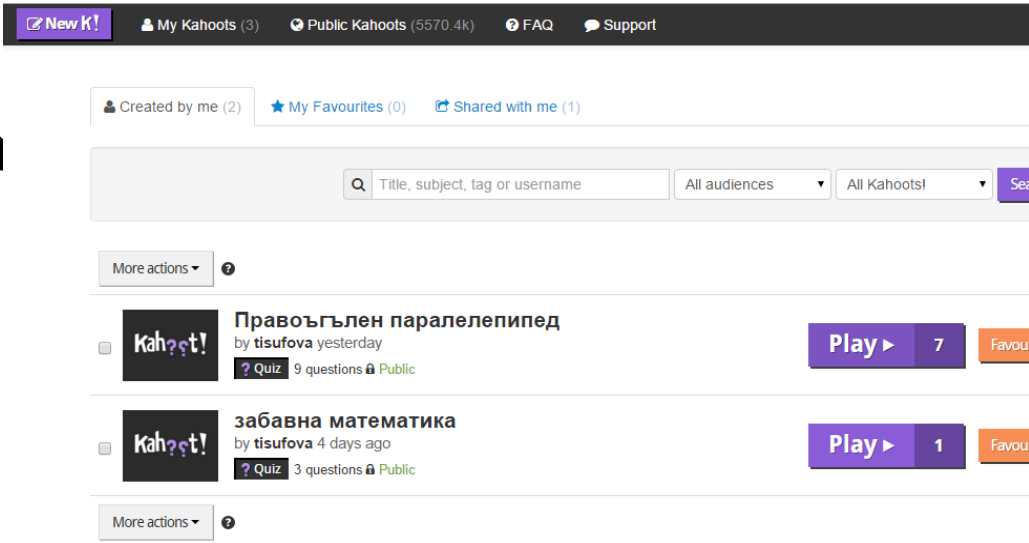
8 правоъгълника

6 правоъгълника

12 правоъгълника

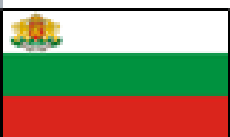


- Teachers can create tests and share them with other users . If you make your Kahoot public other users can duplicate and edit then for their own use.

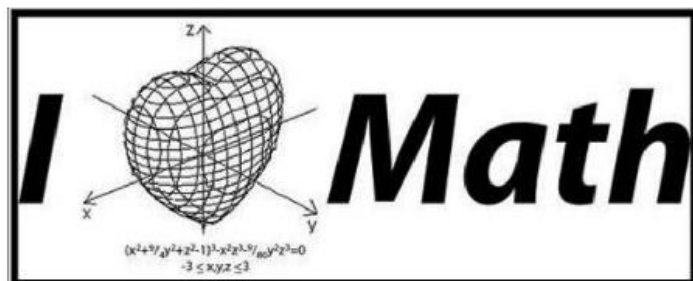


The screenshot shows the Kahoot! dashboard. At the top, there is a navigation bar with a 'New K!' button and links for 'My Kahoots (3)', 'Public Kahoots (5570.4k)', 'FAQ', and 'Support'. Below this, there are filters for 'Created by me (2)', 'My Favourites (0)', and 'Shared with me (1)'. A search bar is present with the placeholder text 'Title, subject, tag or username'. Below the search bar, there are two quiz entries:

Quiz Title	Author	Created	Questions	Audience	Play Count	Action
Правоъгълен паралелепипед	by tisufova	yesterday	9 questions	Public	7	Play
забавна математика	by tisufova	4 days ago	3 questions	Public	1	Play



# Thank you for your attention!



*Обучението  
по  
математика*

