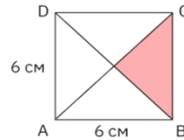


LESSON PLANS

Title	
Lesson plan to be implemented in Math class	
Aim	The main goal of this lesson plan is to summarize and reaffirm the knowledge of working with the learned geometrical figures and finding of the circumference and area of a square and rectangle. Topic: Finding the area of a various geometrical figures
Students age targeted	Fourth grade
Estimated time	45 minutes
Topics covered	<ul style="list-style-type: none"> • Finding a circumference or side of a given circumference • finding an area of a certain figure
Facility/ Equipment	<ul style="list-style-type: none"> • Classroom • Internet access • Projector • White board • Computer
Tools/ Materials	<ul style="list-style-type: none"> • Studentbook, notebook
Development of activities	<p>Activity 1: (6 min) In the beginning of the class, the teacher gives questions, with the aim to actualize the knowledge of geometrical figures. Through the discussion, the teachers prepares the children for the work in class</p> <p>Activity 2: (7 min) The students solve tasks on the interactive sheet, projected on the white board, after that they see whether they have done well.</p> <p>Activity 3: (10 min) After the teacher sees, that the students are doing well and work on the given tasks without difficulties he continues with the work with the computer. They have the task to draw a rectangle in the square grid on the given sides, while knowing that each square is 1 cm.</p> <p>Activity 4: (12 min) Again in the square grid they draw, according to given conditions and answer the questions, towards the task. The</p>

answers of the children are filled in an electron version by the teacher, after which the button “check” is pushed.

Разгледай чертежа.



а) Намери лицето на квадрата.

$L_{\text{кв.}} = 6 \cdot 6 = \underline{\quad}$ кв. см

б) Вярно ли е, че оцветената част е четвъртината от лицето на квадрата? (да/не)

Колко квадратни сантиметра са това? : 4 = кв. см

в) Вярно ли е, че половината от лицето на квадрата е „заета“ от триъгълниците ABC или ABD? (да/не)

г) Има ли и други триъгълници, които заемат половината от лицето на квадрата? Назови ги.



Проверка

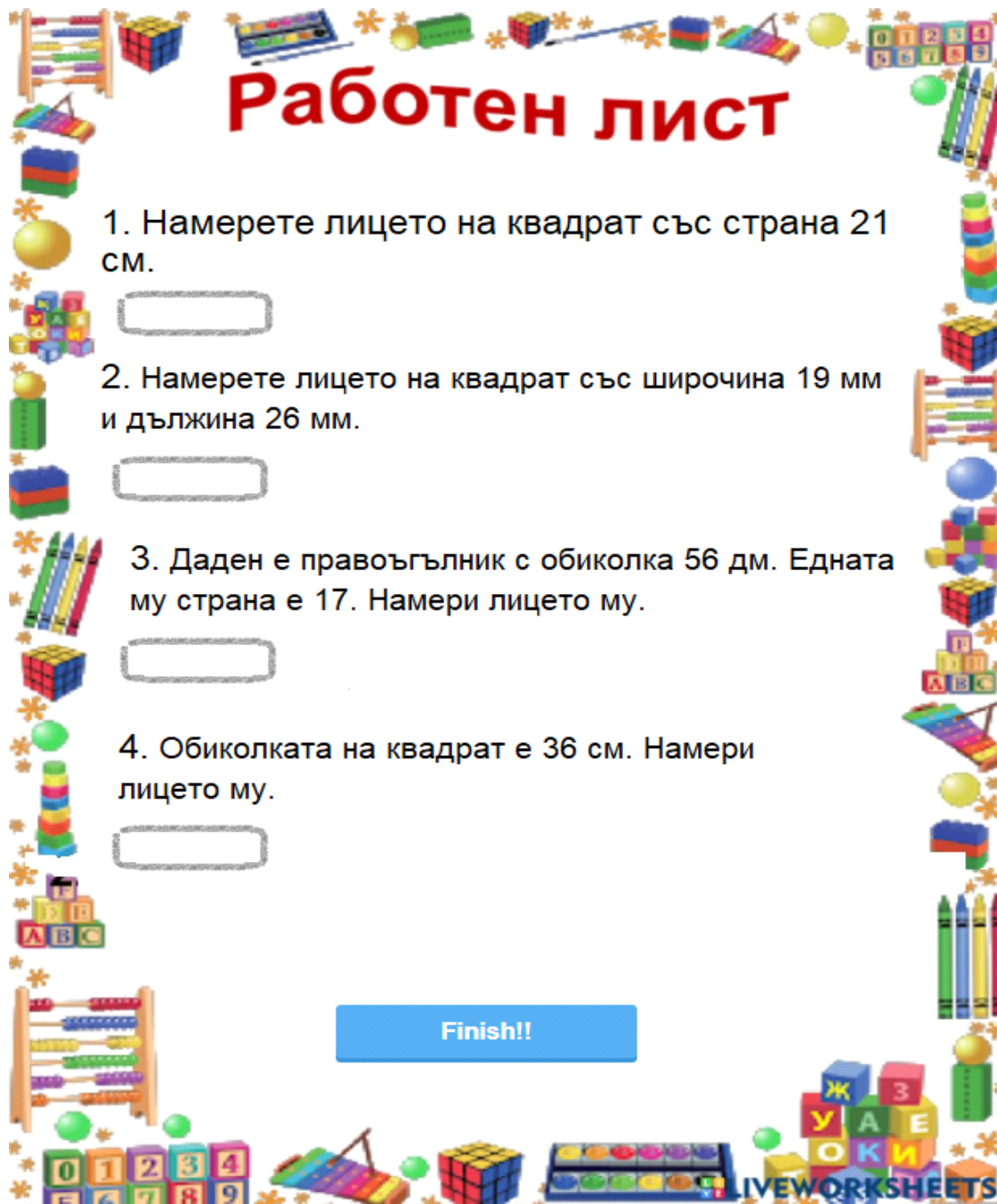
Activity 5: (5 min) Assessment of the classwork, summarizing of what has been learned.

Further homework (5 min) Teamwork, with the help of the necessary tools the class room is to be measured and its area found and calculated. After that they calculate what area each desk takes and they find the unoccupied area in the room.

Important! – Take into account the measurement units, with which the children work.

The work is carried out under the supervision of a teacher.

HANDOUT 1: title



Работен лист

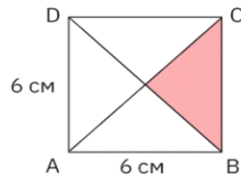
1. Намерете лицето на квадрат със страна 21 см.
2. Намерете лицето на квадрат със широчина 19 мм и дължина 26 мм.
3. Даден е правоъгълник с обиколка 56 дм. Едната му страна е 17. Намери лицето му.
4. Обиколката на квадрат е 36 см. Намери лицето му.

Finish!!

LIVEWORKSHEETS

HANDOUT 2: title

Разгледай чертежа.



а) Намери лицето на квадрата.

$$Л_{\text{кв.}} = 6 \cdot 6 = \underline{\quad} \text{ кв. см}$$

б) Вярно ли е, че оцветената част е четвъртината от лицето на квадрата? (да/не)

$$\text{Колко квадратни сантиметра са това? } \underline{\quad} : 4 = \underline{\quad} \text{ кв. см}$$

в) Вярно ли е, че половината от лицето на квадрата е „заета“ от триъгълниците ABC или ABD? (да/не)

г) Има ли и други триъгълници, които заемат половината от лицето на квадрата? Назови ги.



Проверка

1. Find the area of a square with a side of 21cm
2. Find the area of a rectangle with a width of 19mm and a length of 26mm
3. A given rectangle has a circumference of 56dm
4. The circumference of a square is 36cm. Find its area.

Look at the drawing

- а) Find the area of the square.



Area of square = $6 \times 6 = \dots$ sq.cm.

b) Is it true that the colored part is one fourth of the area of the square (yes/no)

How many square centimeters is that $\dots / 4 = \dots$ sq.cm.

c) Is it true that half of the area of the square is “taken” by the triangles ABC or ABD (yes/no)

d) Are there any other triangles that take half of the area of the square? Name them.