

**Презентация к уроку математики
в 4 классе по теме:**

**«ПЛОЩАДЬ
ПРЯМОУГОЛЬНОГО
ТРЕУГОЛЬНИКА»**

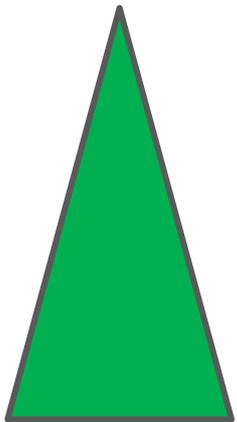
Составила учитель начальных классов
Николенко Светлана Алексеевна,
МБОУ СОШ №1, г. Новый Уренгой

Виды треугольников

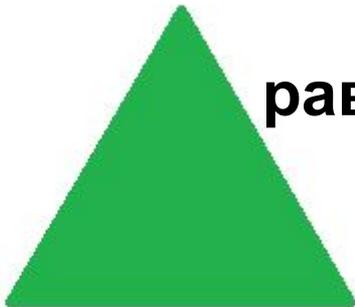
По размерам сторон



разносторонние



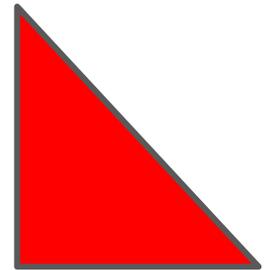
равнобедренные



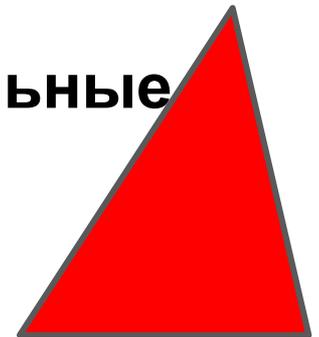
равносторонние

По размерам углов

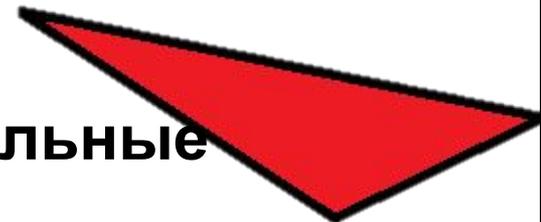
прямоугольные



остроугольные



тупоугольные



Виды углов



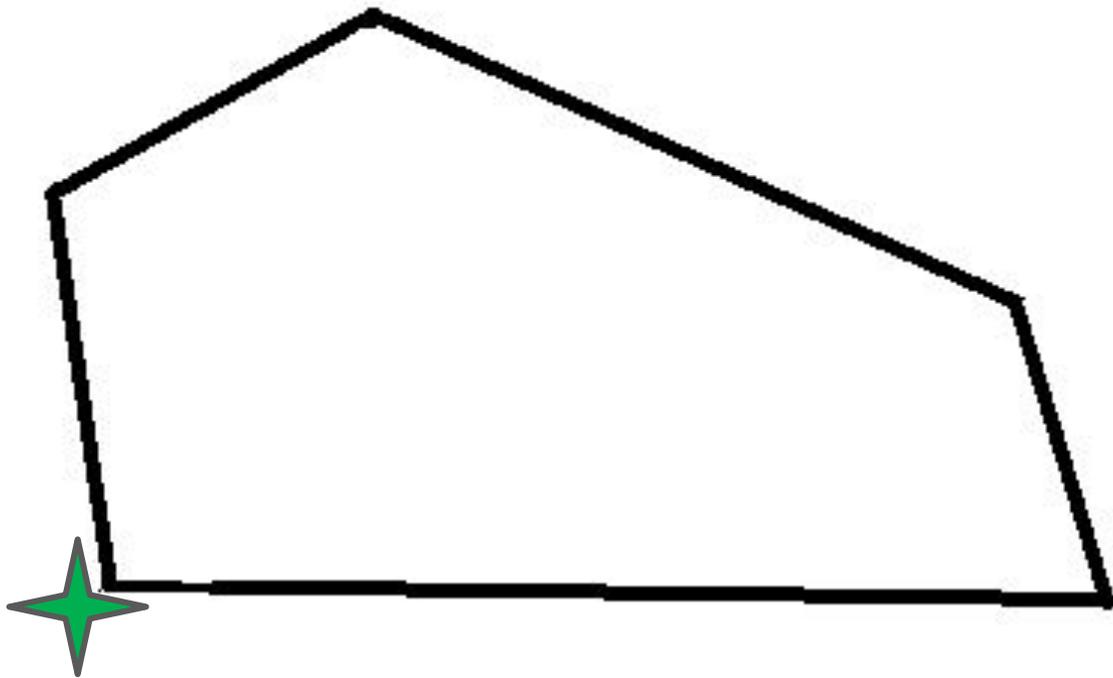
острый угол

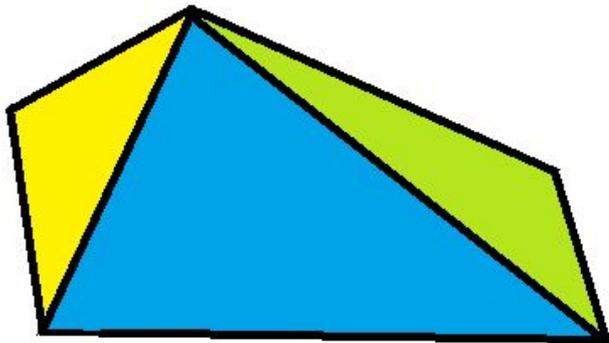


прямой угол

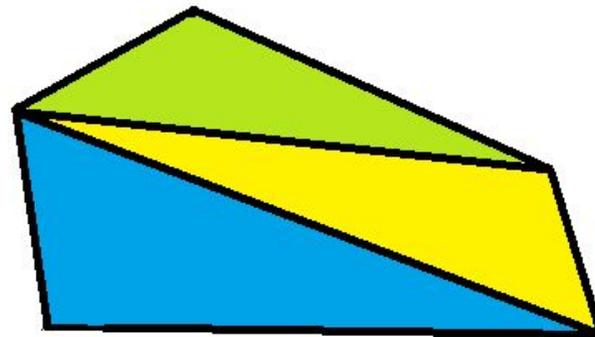


тупой угол

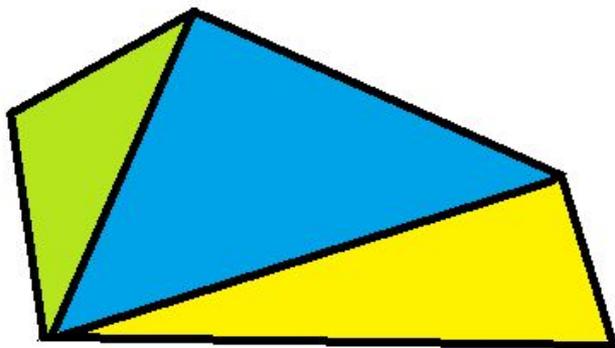




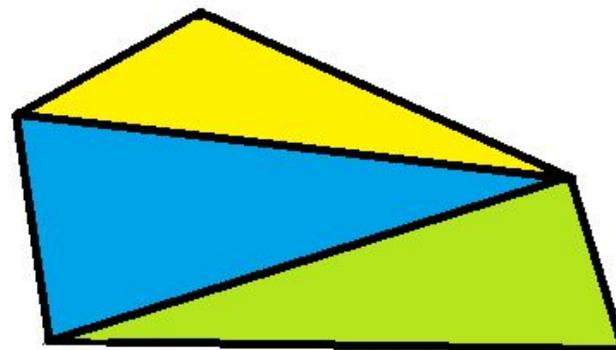
Вариант А



Вариант В



Вариант С

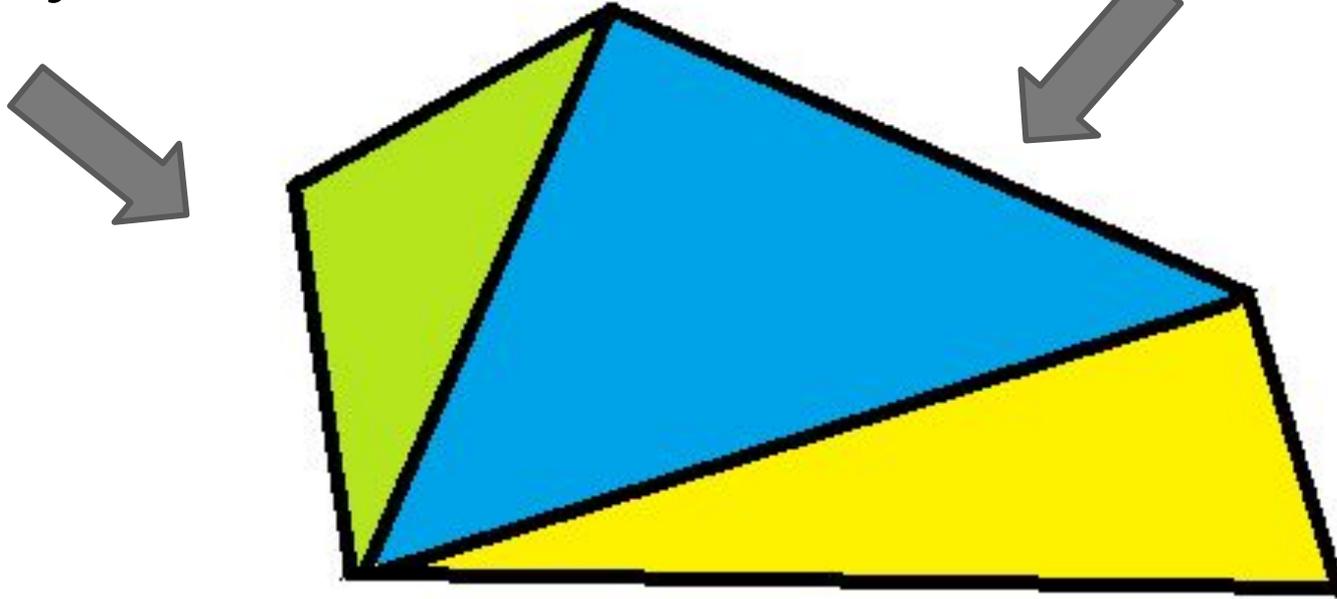


Вариант D

Виды треугольников

тупоугольный

прямоугольный



остроугольный

Сумма внутренних углов треугольника 180 градусов

Треугольник № 1

45'
45'
*'

Треугольник № 2

120'
40'
*'

Треугольник № 3

60'
30'
*'

Треугольник № 4

70'
75'
*'

Треугольник № 1

45'
45'
90'

Треугольник № 2

120'
40'
20'

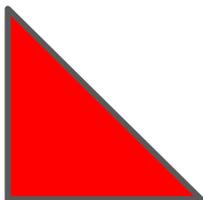
Треугольник № 3

60'
30'
90'

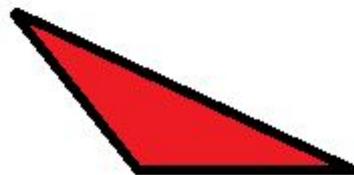
Треугольник № 4

70'
75'
35'

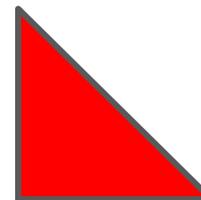
прямоугольный



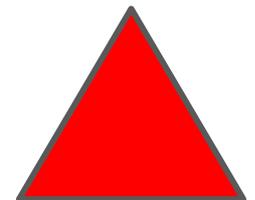
тупоугольный



прямоугольный

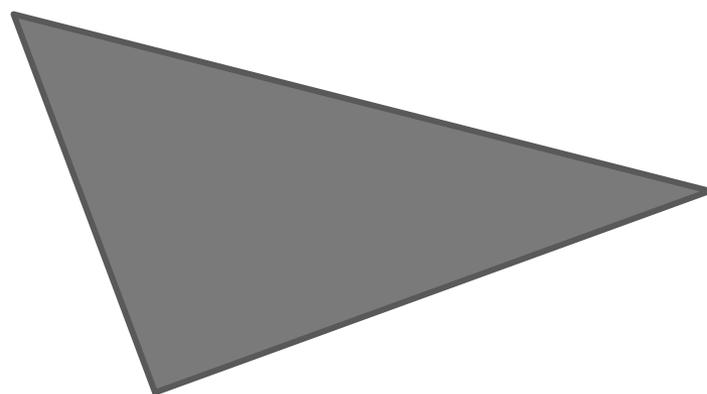
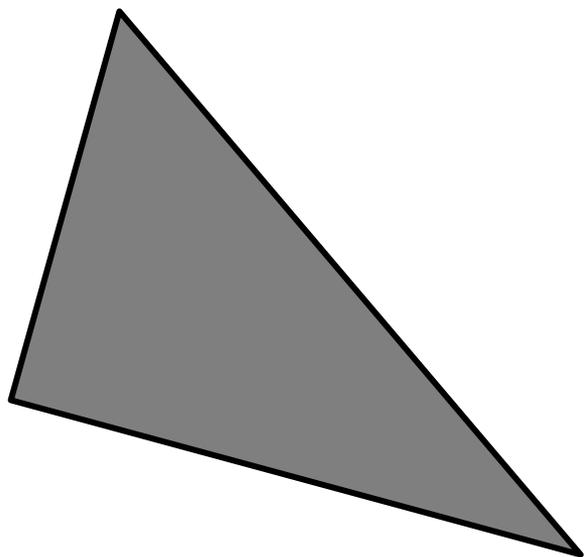


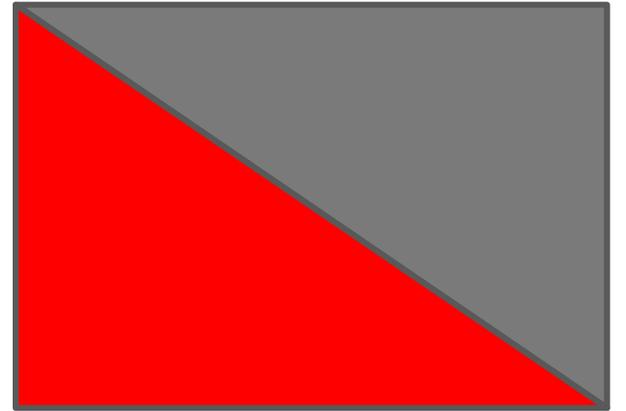
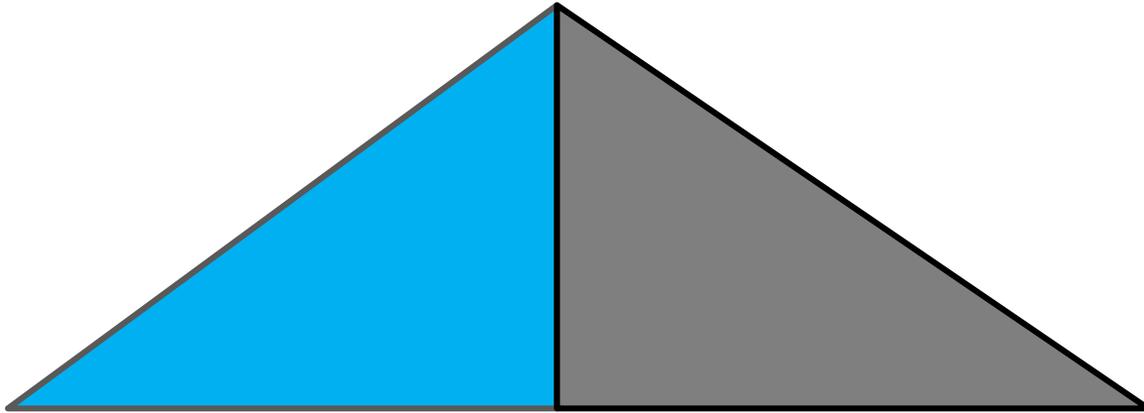
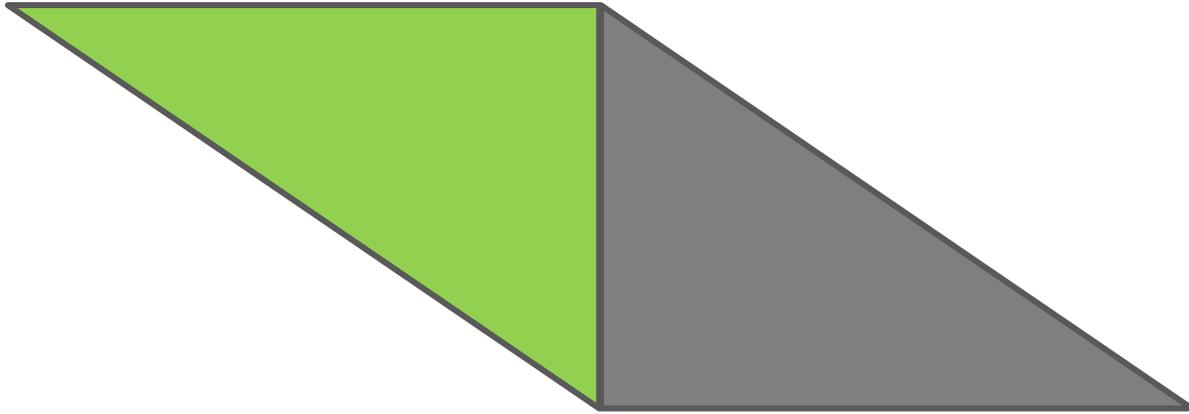
остроугольный

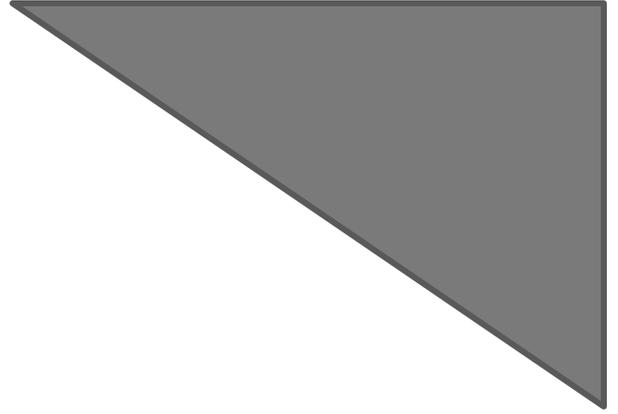
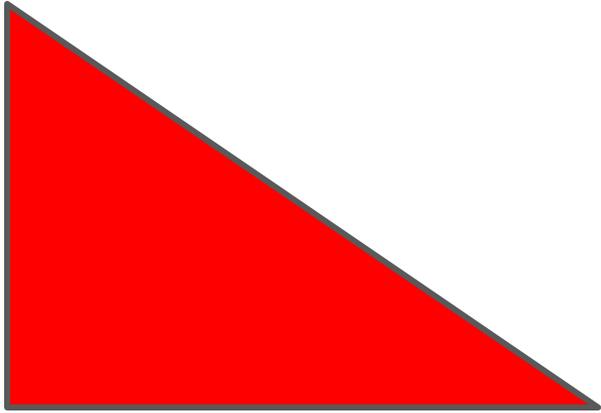


Тема урока:

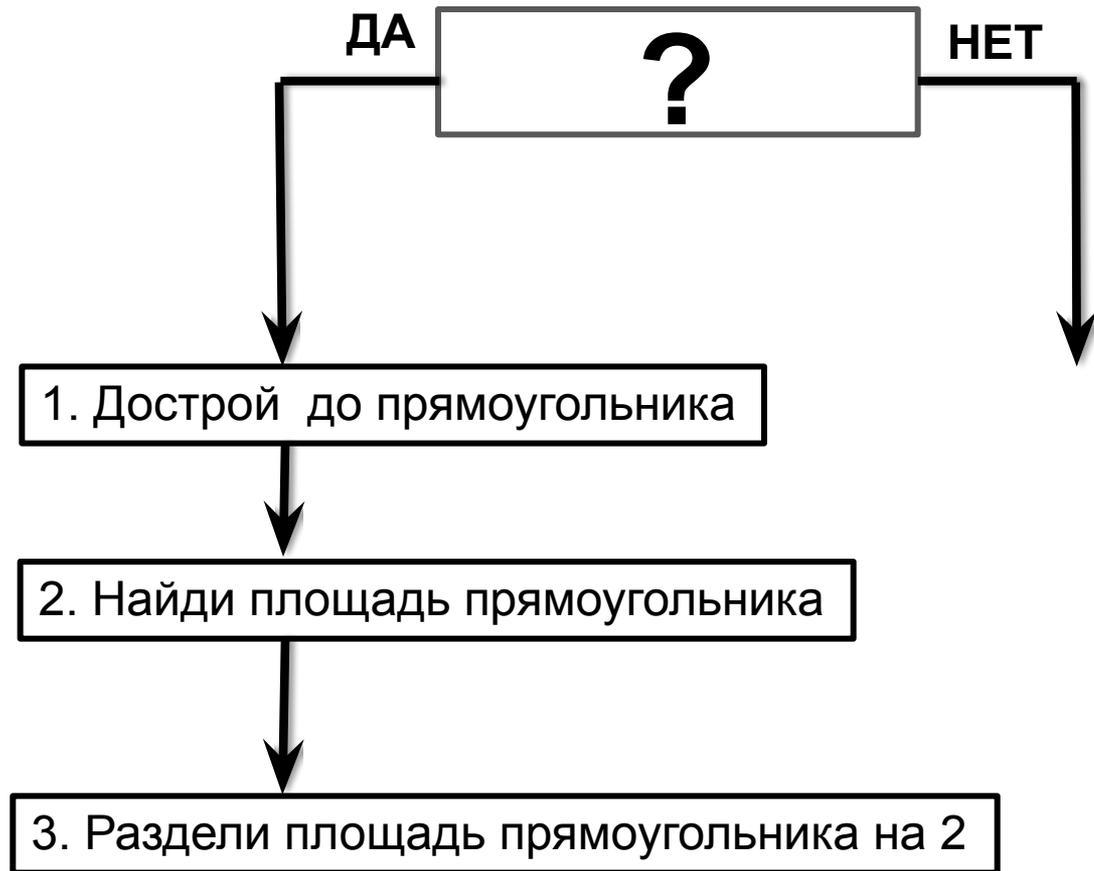
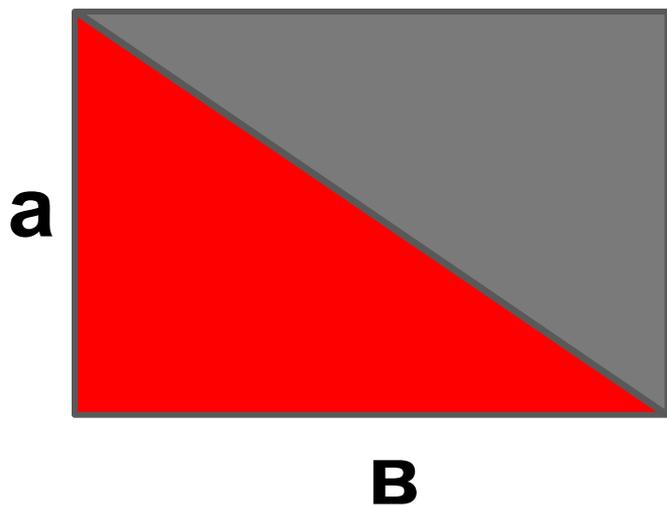
**ПЛОЩАДЬ
ПРЯМОУГОЛЬНОГО
ТРЕУГОЛЬНИКА**



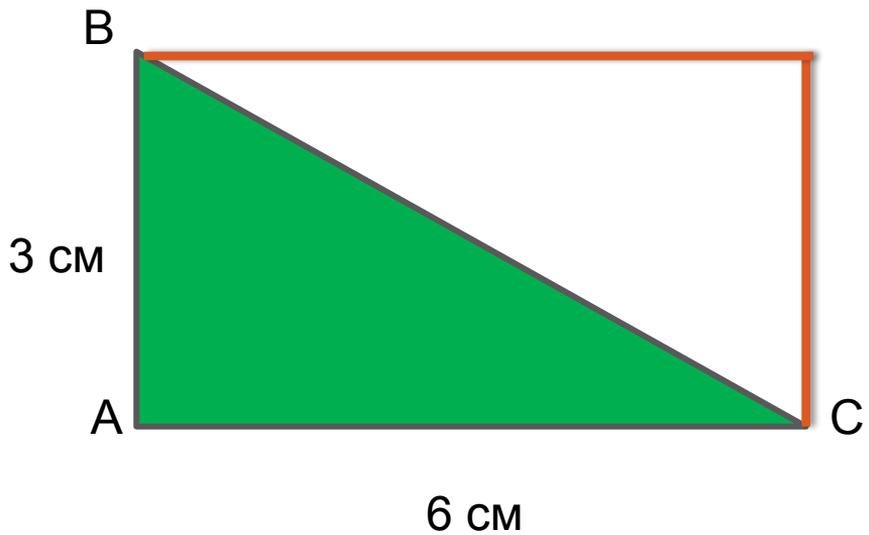




Алгоритм нахождения площади прямоугольного треугольника



$$S_{\triangle} = (a \times b) : 2$$



Дано:

$$a = 3\text{ см}$$

$$b = 6\text{ см}$$

Найти:

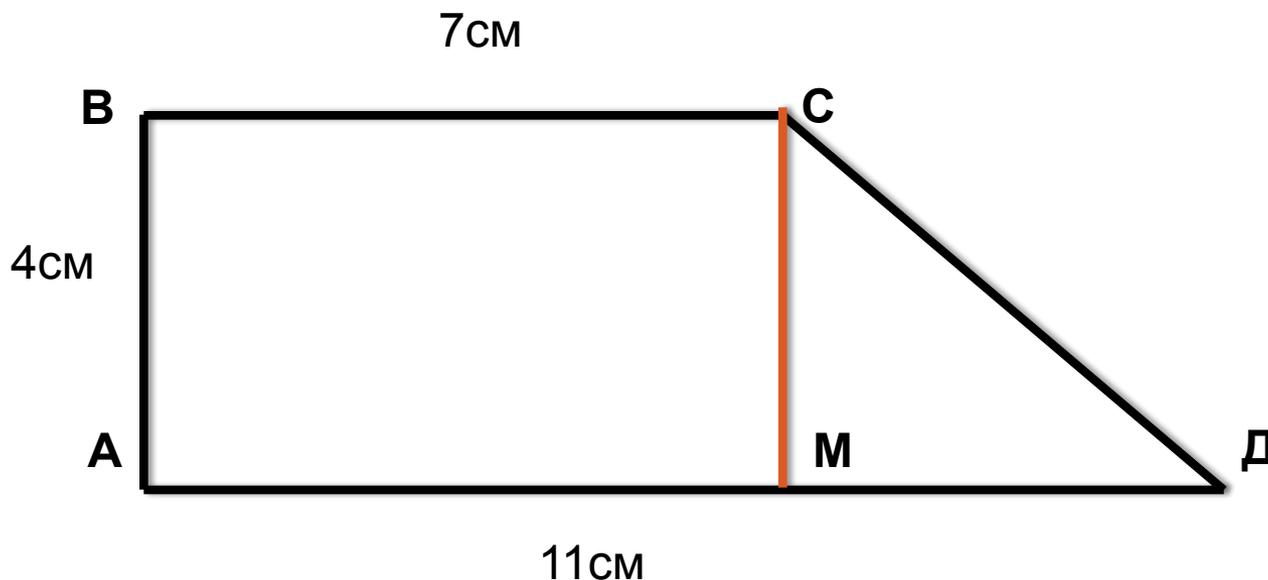
$$S_{\triangle} = ?$$

Решение:

$$S_{\triangle} = (a \times b) : 2$$

$$S_{\triangle} = (3 \times 6) : 2 = 9 \text{ (см}^2\text{)}$$

Ответ: площадь треугольника ABC =
= 9 см²



Дано:

$$AB=4\text{см}$$

$$BC=7\text{см}$$

$$AD=11\text{см}$$

Найти:

$$S_{ABCD} = ?$$

Решение:

1) $S_{ABCM} = a \times b$

$$S_{ABCM} = 4 \times 7 = 28 \text{ (см}^2\text{)}$$

2) $11 - 7 = 4 \text{ (см)}$ – длина MD

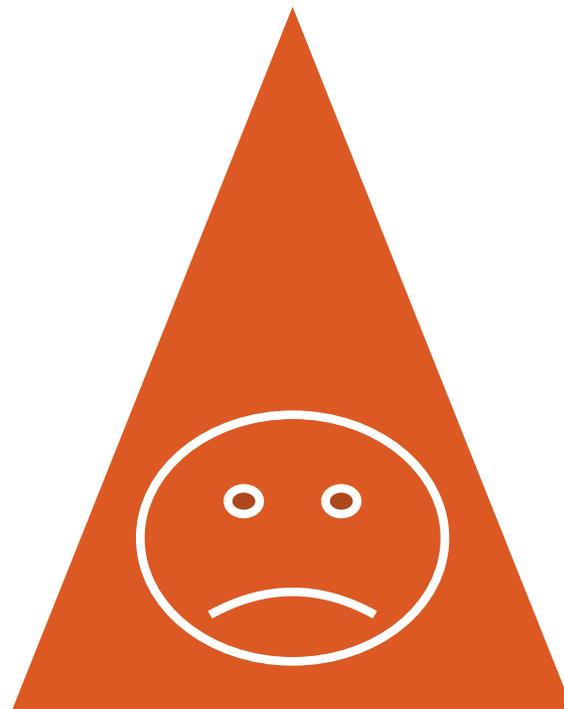
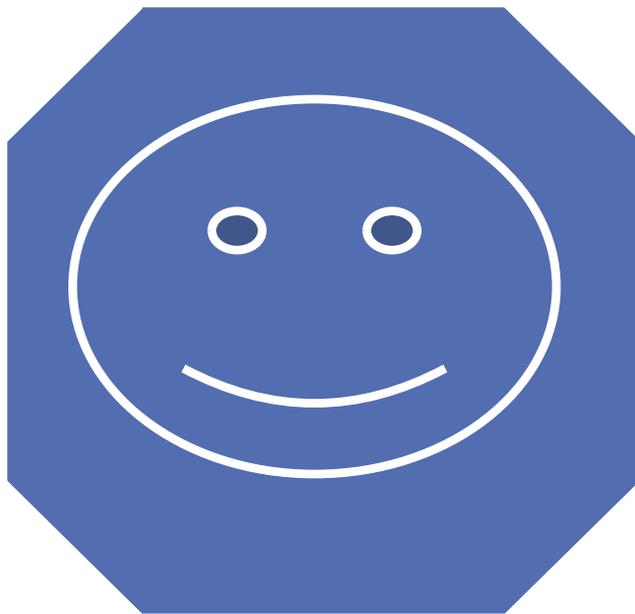
3) $S_{CMD} = (a \times b) : 2$

$$S_{CMD} = (4 \times 4) : 2 = 8 \text{ (см}^2\text{)}$$

4) $28 + 8 = 36 \text{ (см}^2\text{)}$

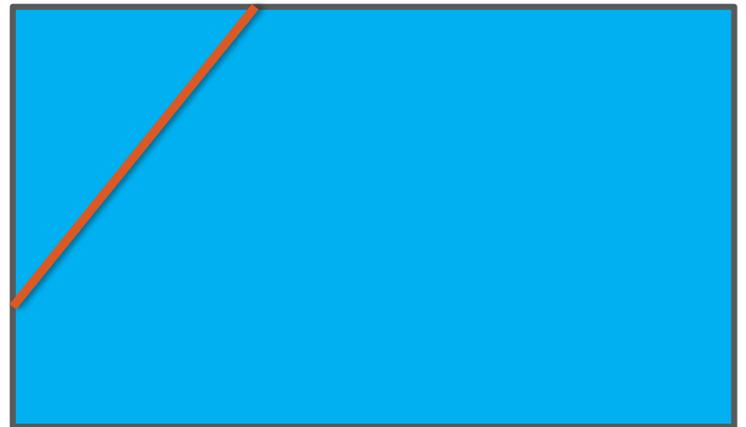
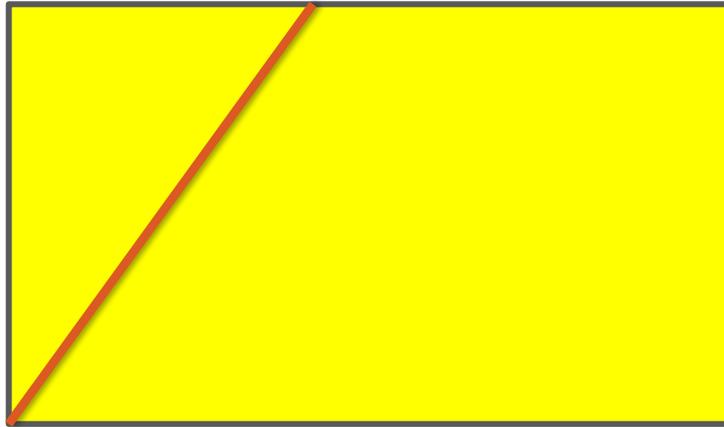
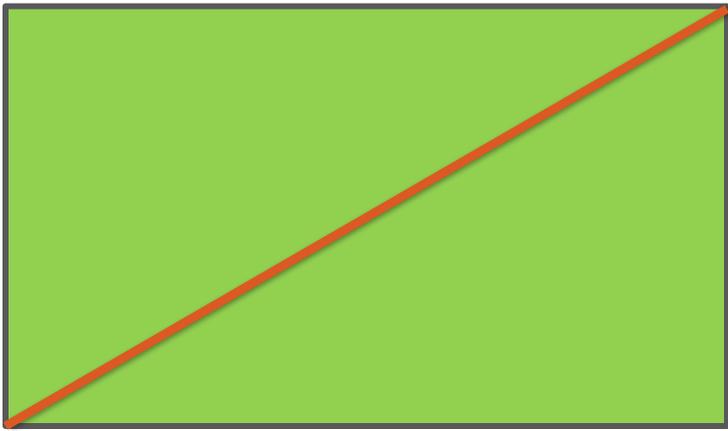
Ответ: $S_{ABCD} = 36 \text{ (см}^2\text{)}$

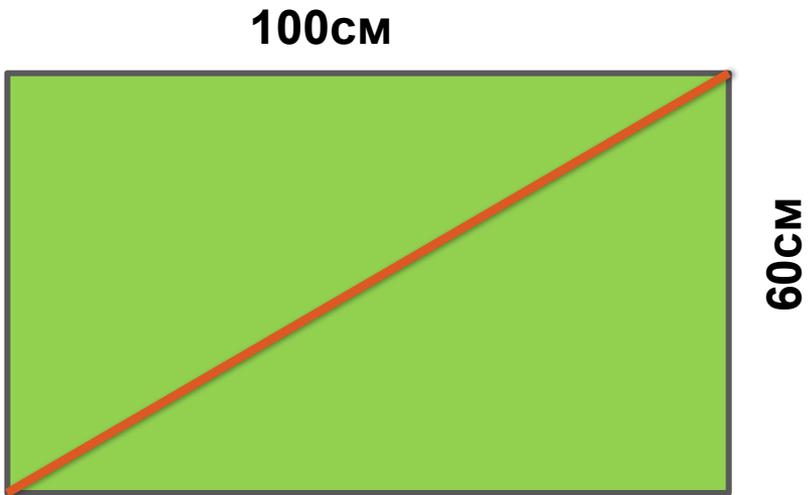
Стихотворение «Треугольник и квадрат»



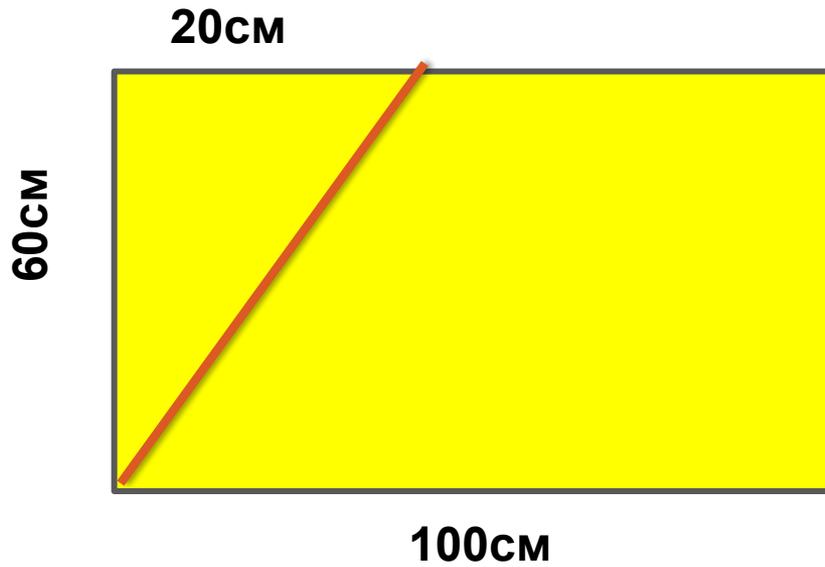


- 1) $(2 \times 2) : 2 = 2$ (кв. см) - S одного прямоугольного треугольника.
- 2) $2 \times 4 = 8$ (кв.см) – S четырех прямоугольных треугольников.
- 3) $10 \times 10 = 100$ (кв.см) – S большого квадрата.
- 4) $100 - 8 = 92$ (кв.см)

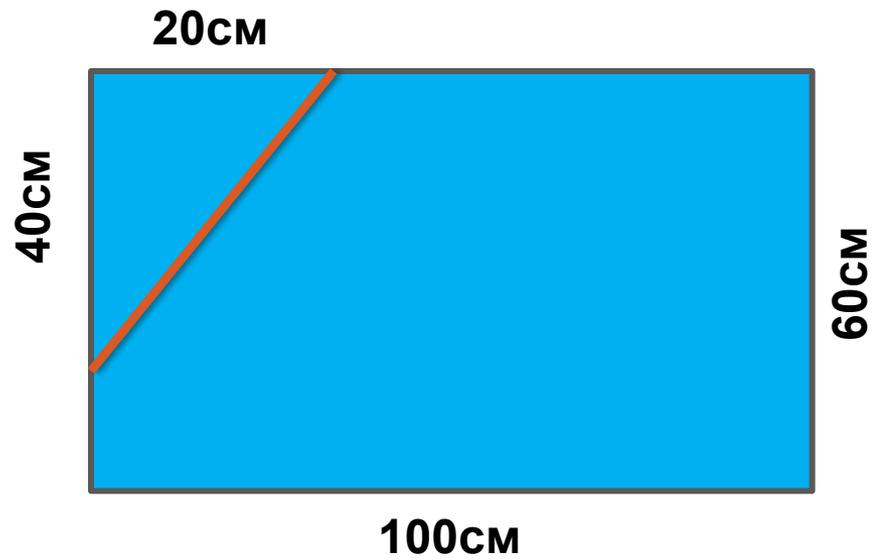




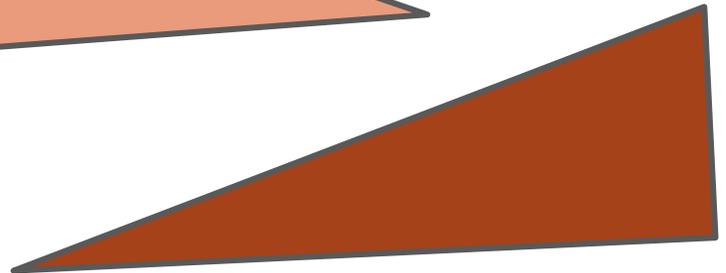
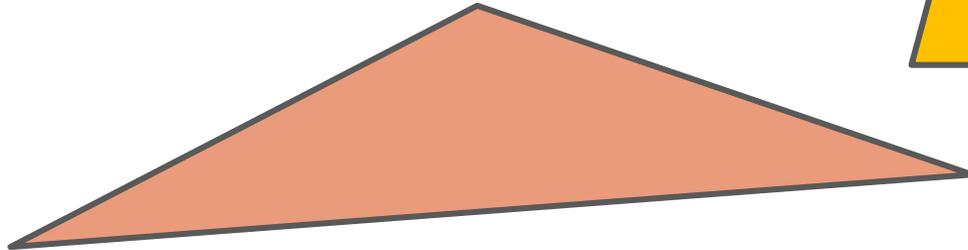
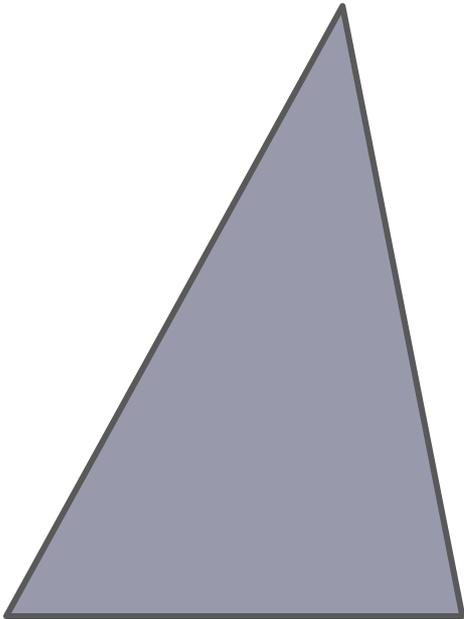
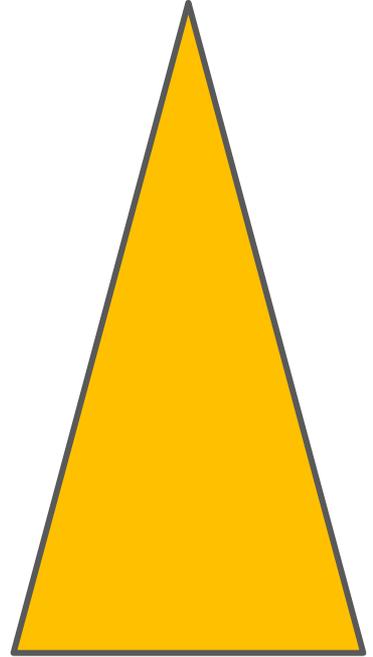
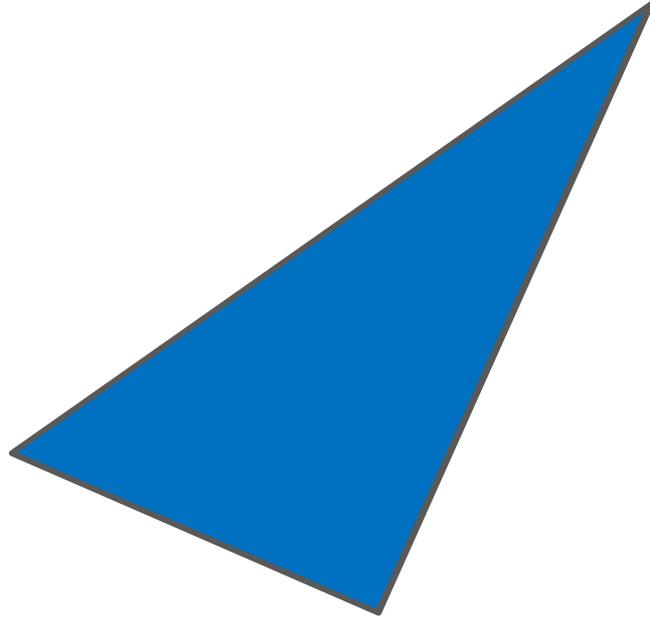
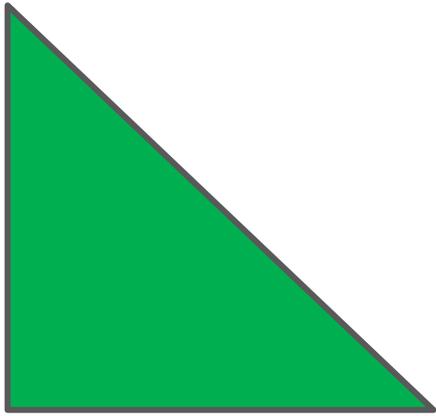
$$(60\text{cm} \times 100\text{cm}) : 2 = 3000 \text{ cm}^2;$$

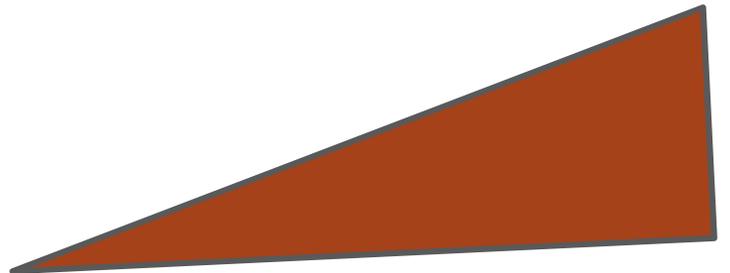
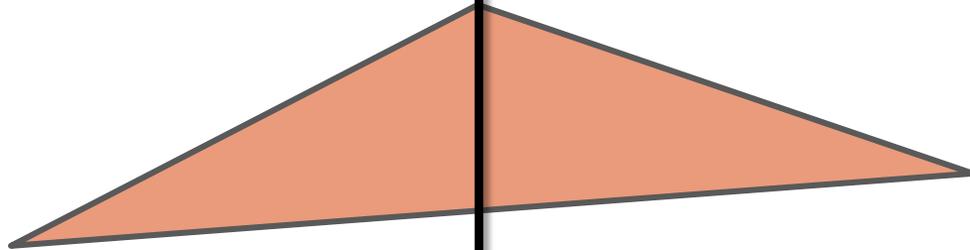
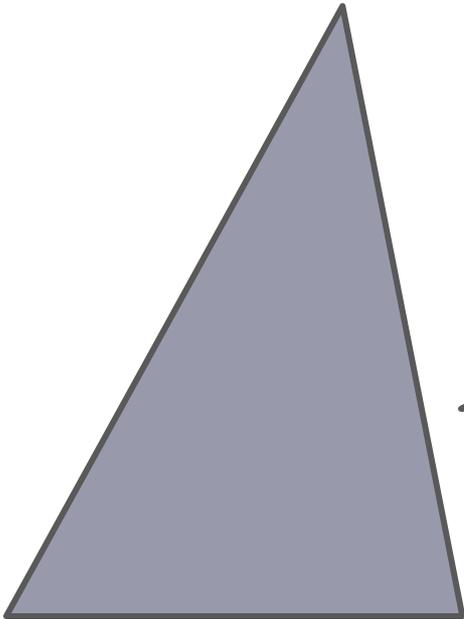
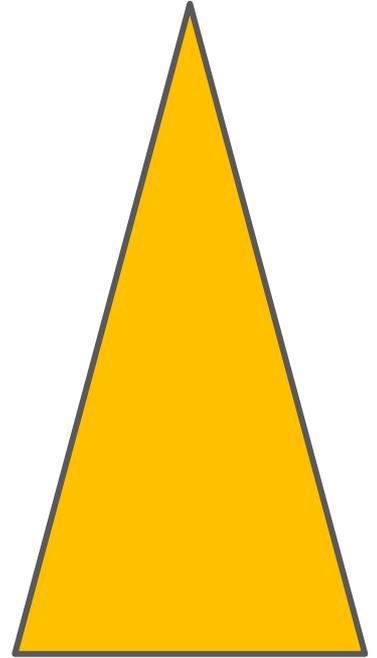
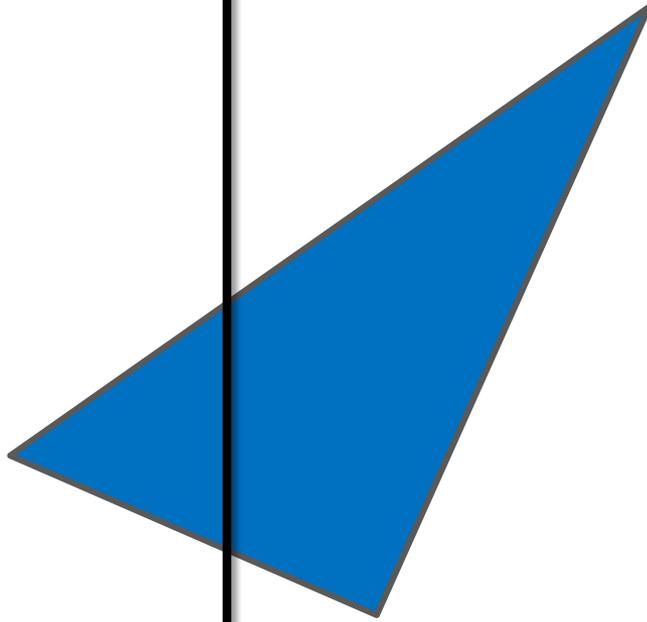
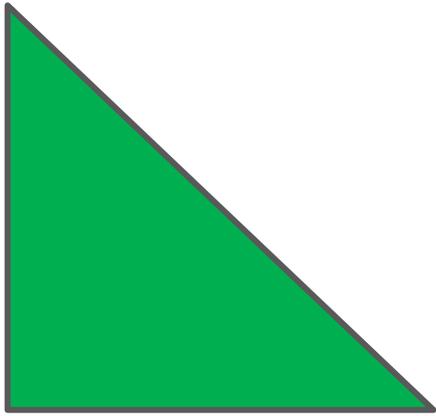


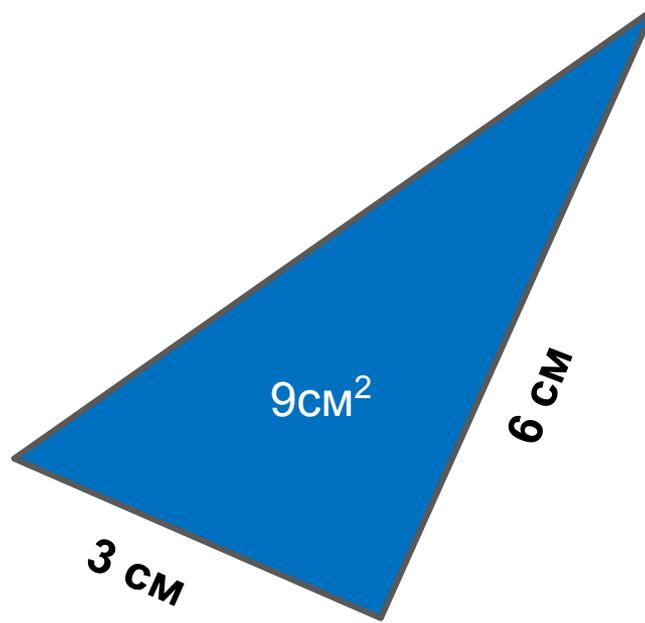
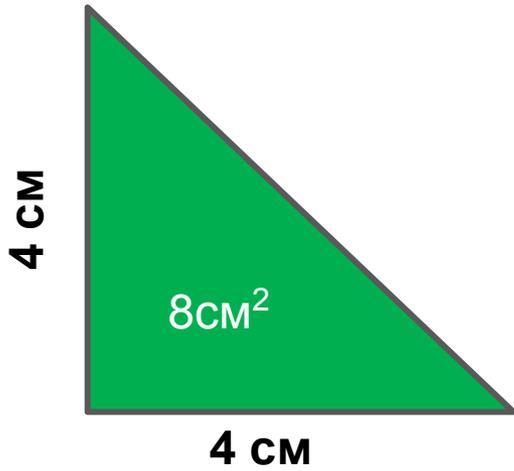
$$60\text{cm} \times 100\text{cm} - (60\text{cm} \times 20\text{cm}) : 2 = 5400\text{cm}^2;$$



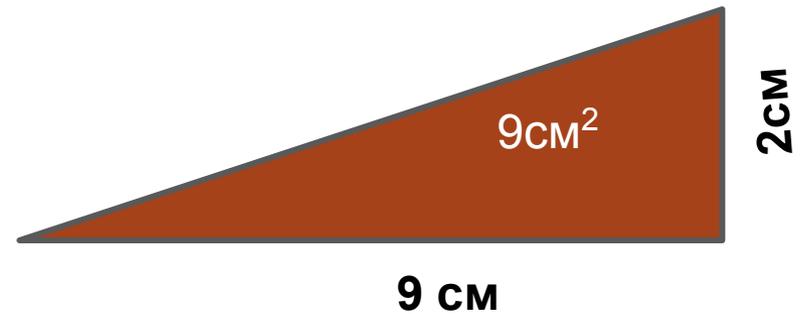
$$60\text{cm} \times 100\text{cm} - (40\text{cm} \times 20\text{cm}) : 2 = 5600\text{cm}^2$$



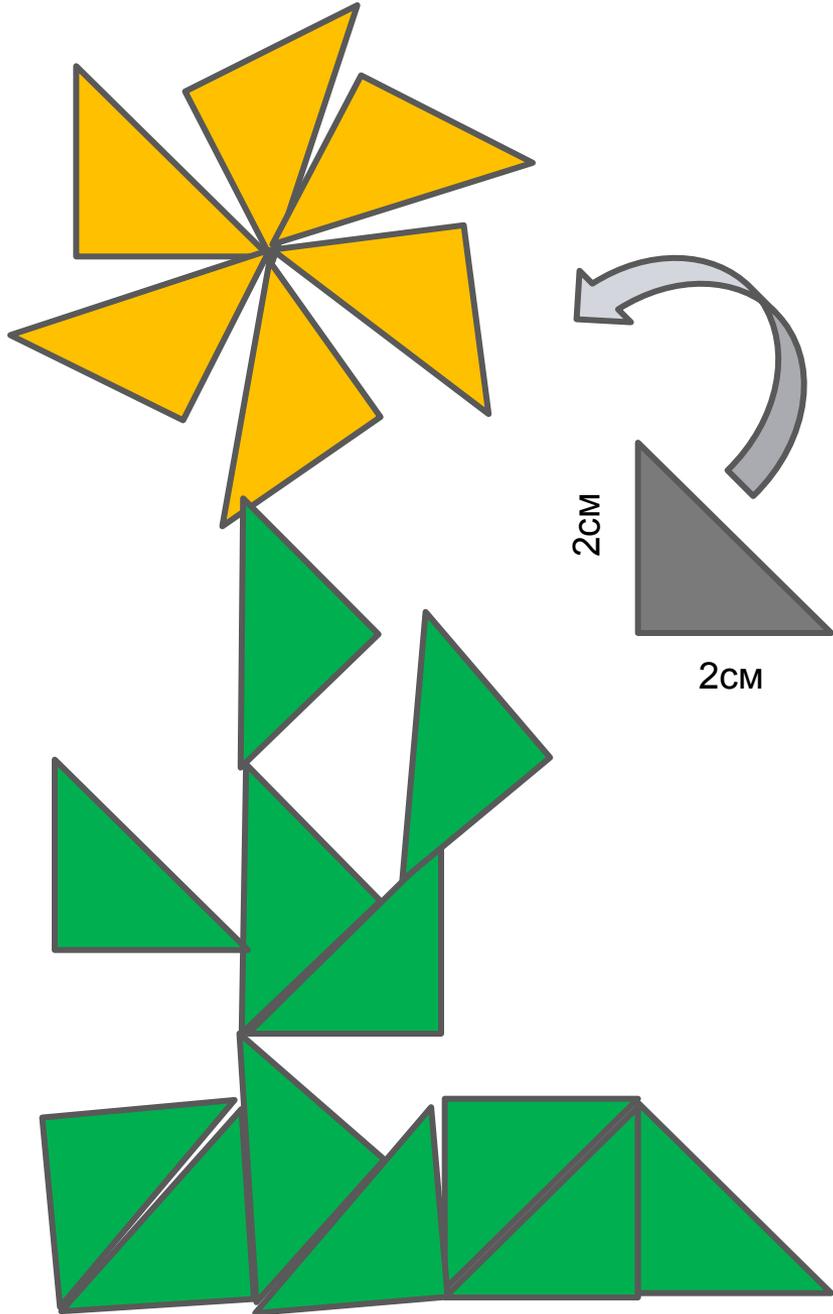




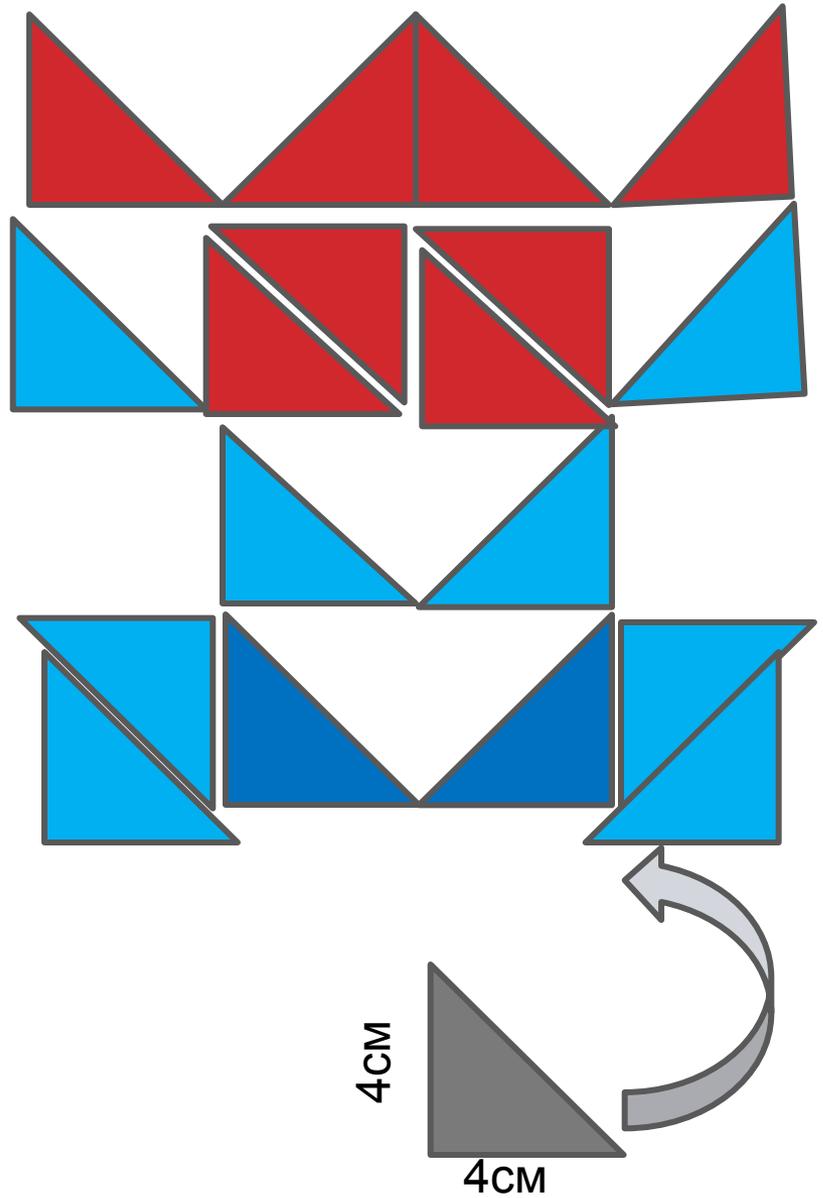
$$S_{\triangle} = (a \times b) : 2$$

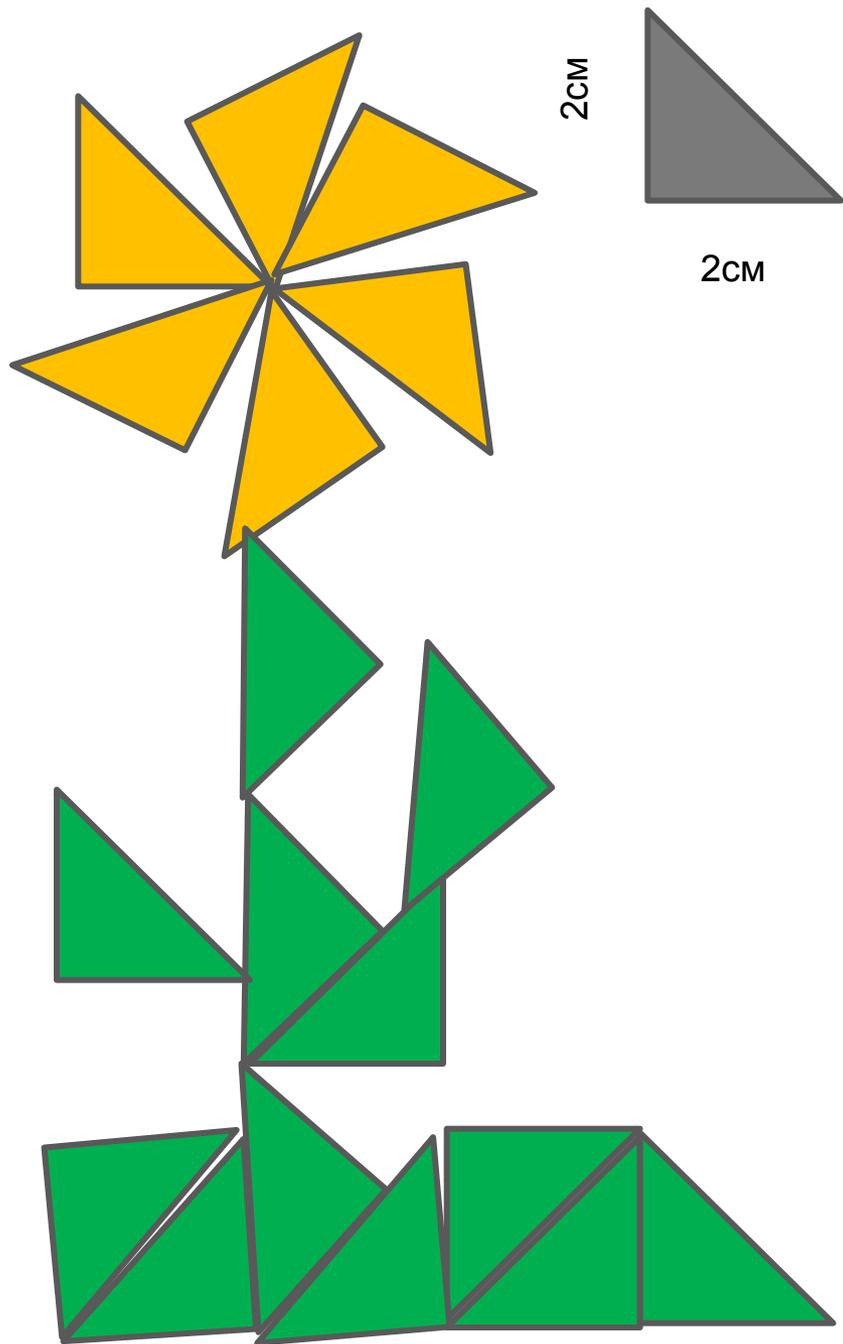


*** вариант 1**

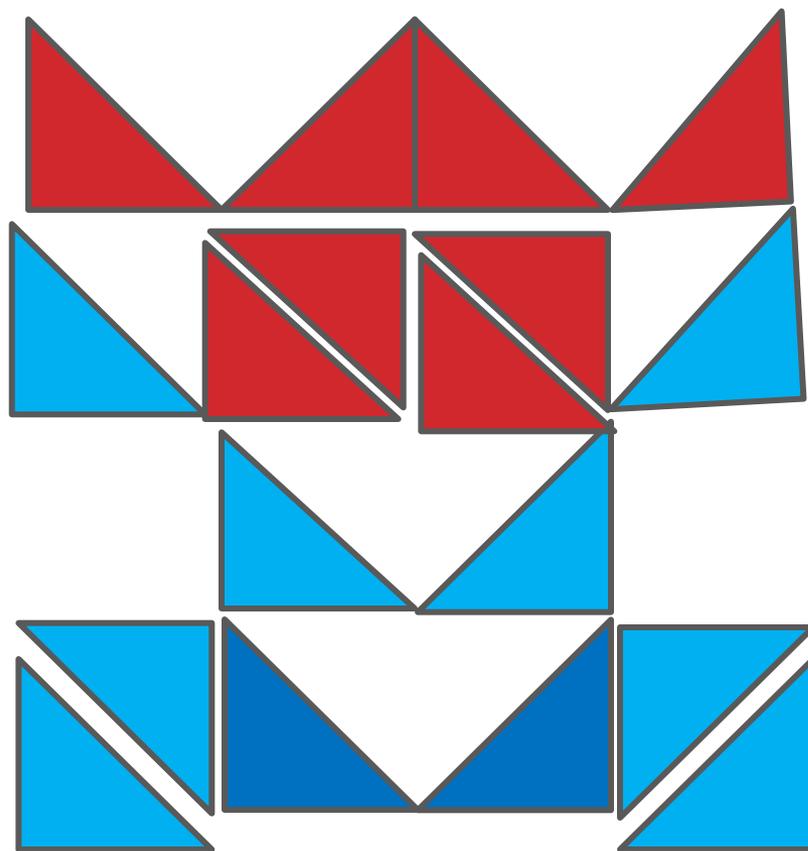
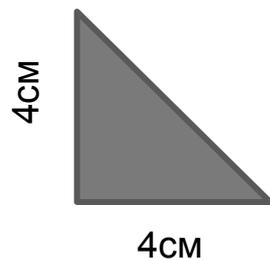


*** вариант 2**

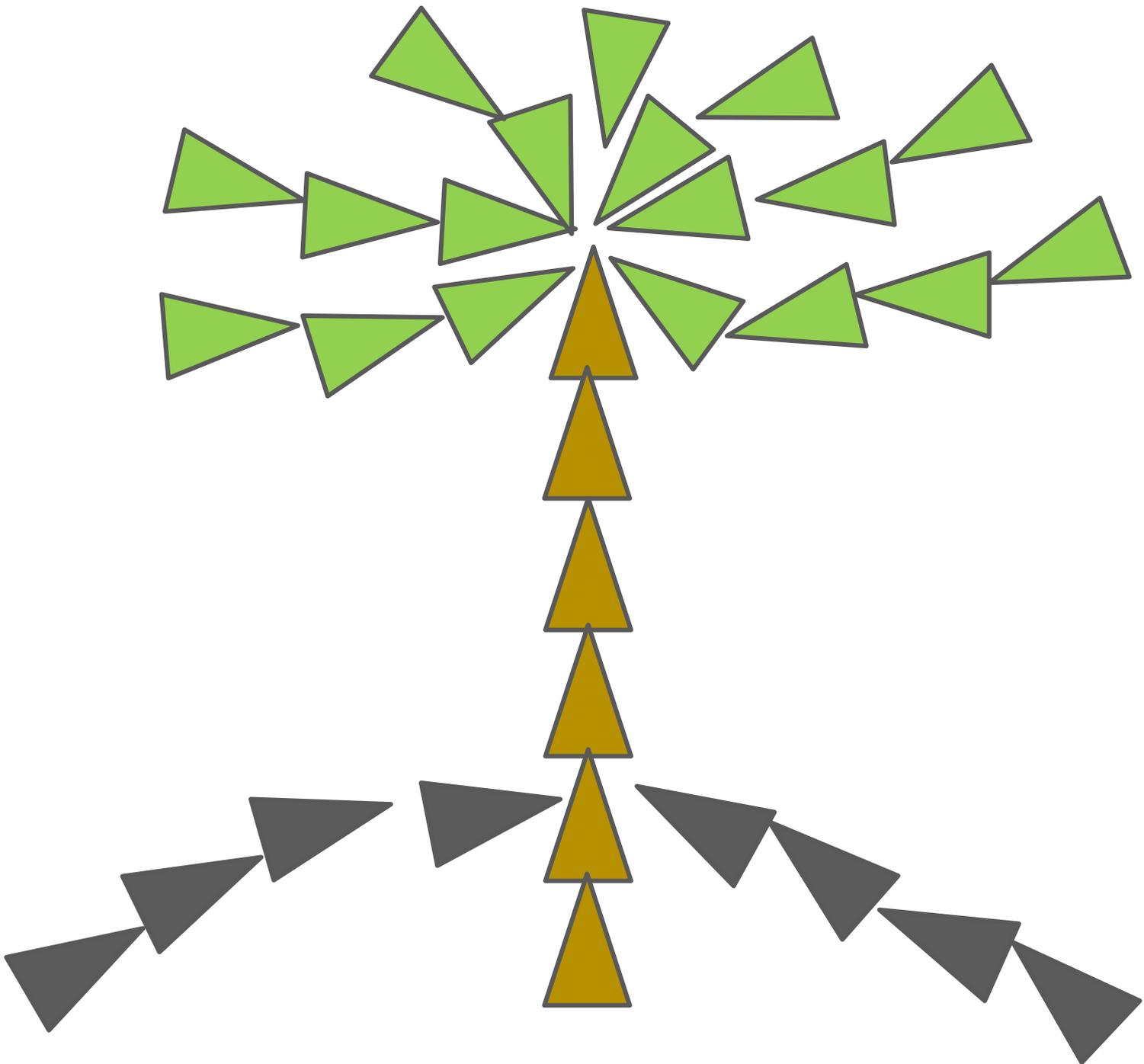




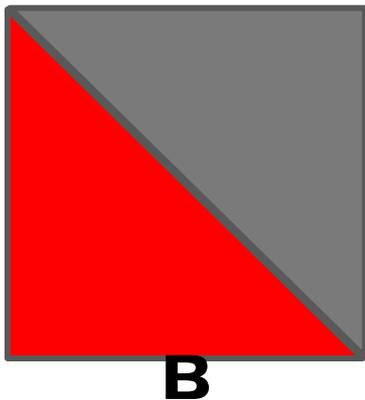
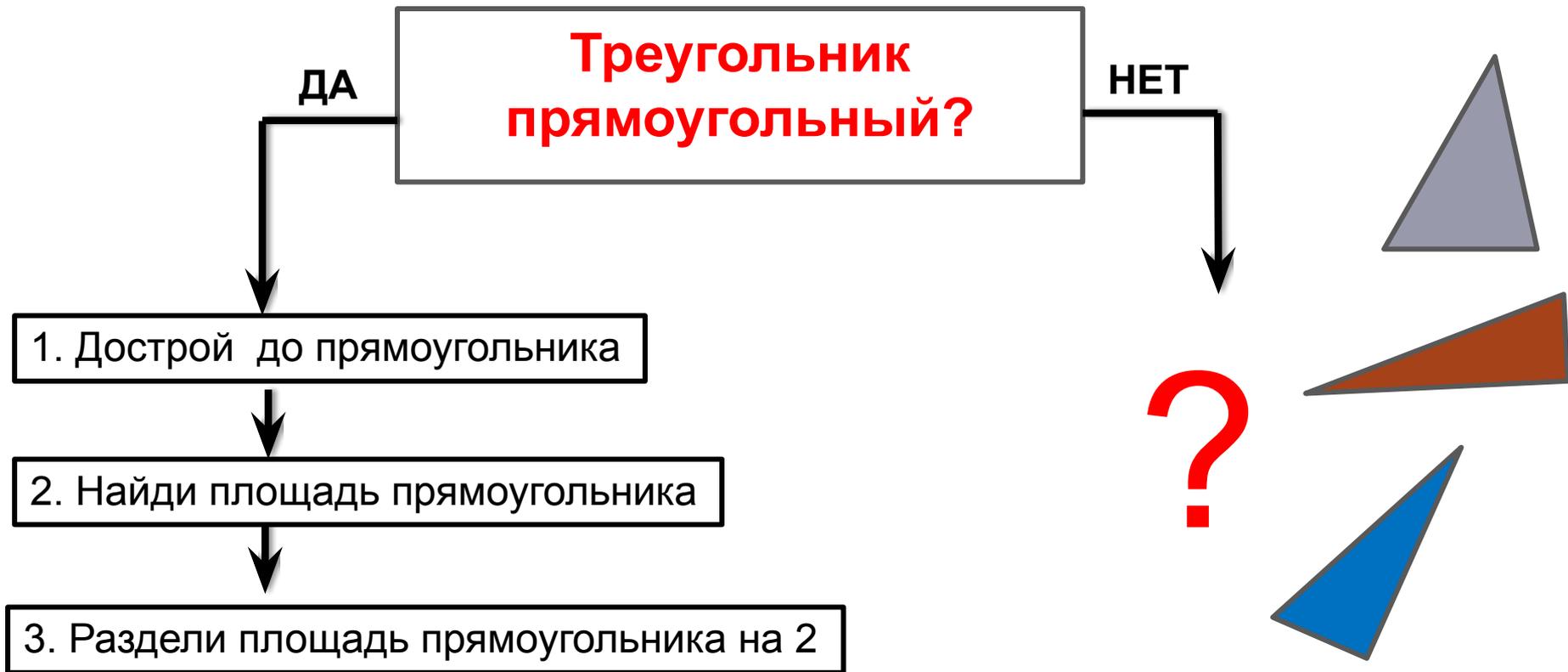
$$S \text{ цветка} = \\ = (2 \times 2) : 2 \times 18 = 36 \text{ (см}^2\text{)}$$



$$S \text{ дома} = (4 \times 4) : 2 \times 18 = 144 (\text{cm}^2)$$

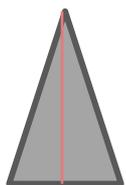
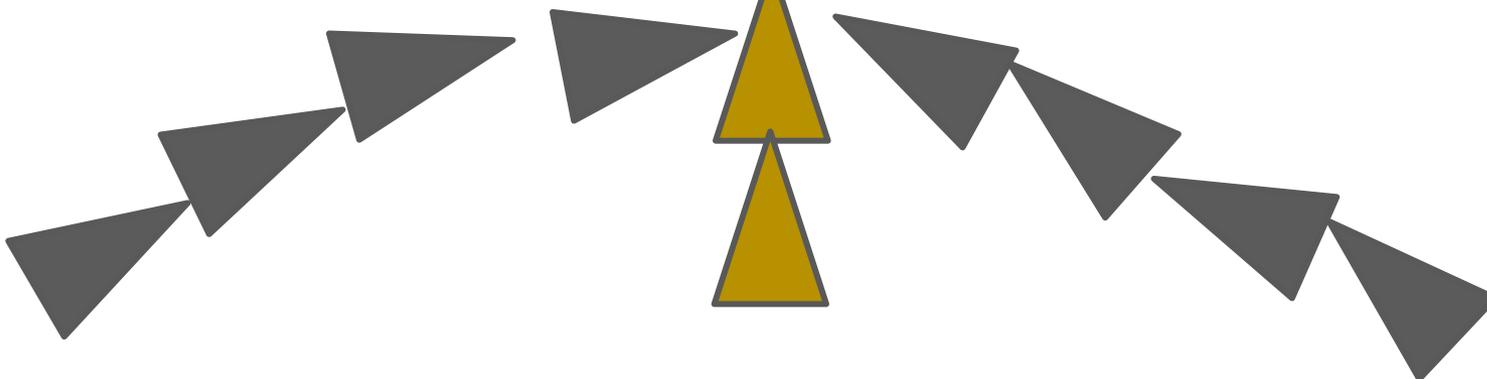
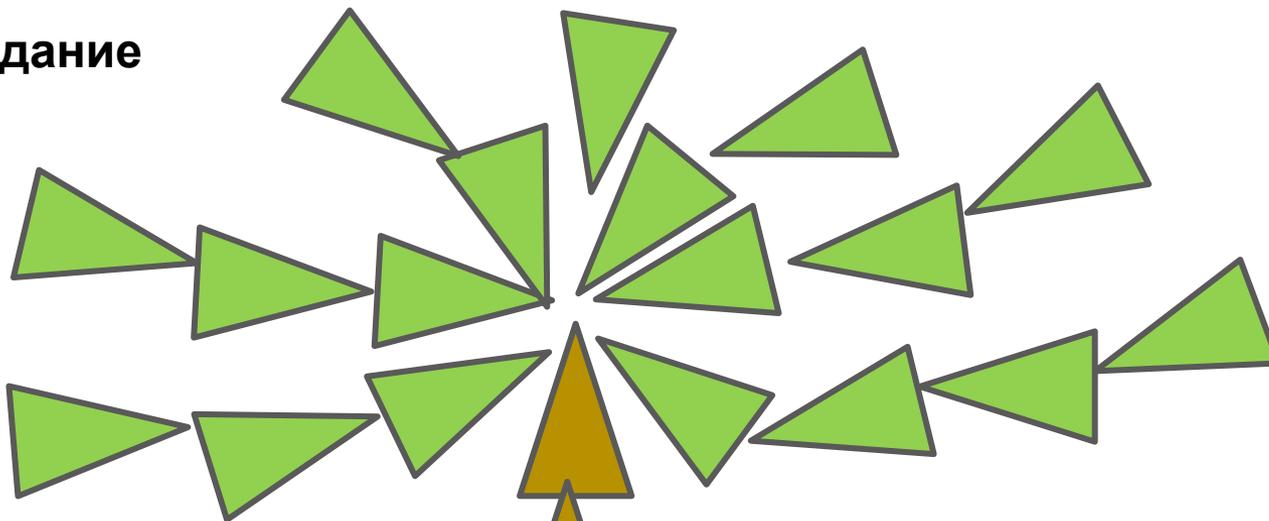


Алгоритм нахождения площади прямоугольного треугольника



$$S_{\triangle} = (a \times b) : 2$$

Домашнее задание



высота 3см

4см