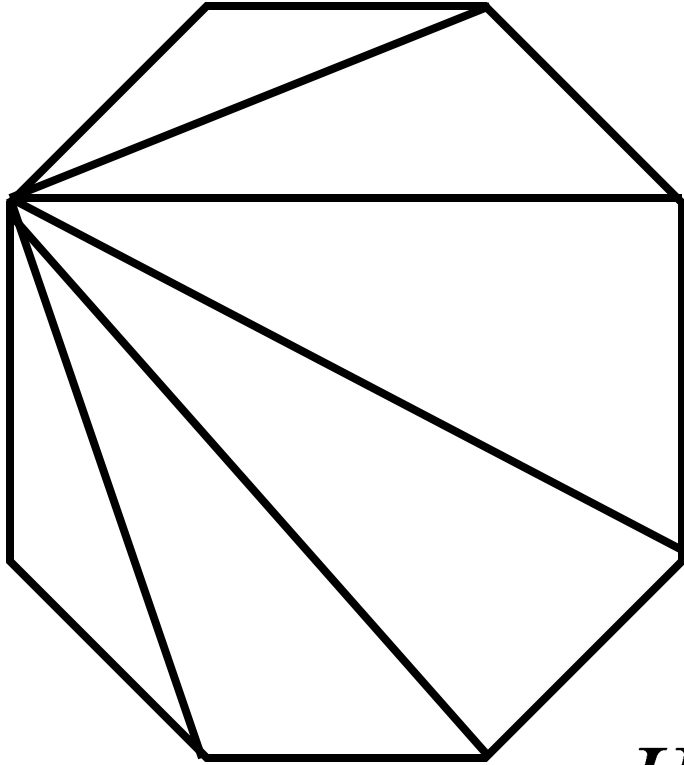




Площади простых фигур

Свойства площади



$$I. S > 0;$$

II. Если $F_1 = F_2$, то

$$S(F_1) = S(F_2);$$

III. $F = F_1 + F_2 + F_3$, то

$$S(F) = S(F_1) + S(F_2) + S(F_3);$$

$$IV. S_{кв} = a^2$$

№1

1. $a_{кв} = 1см, то S_{кв} = 1см^2$

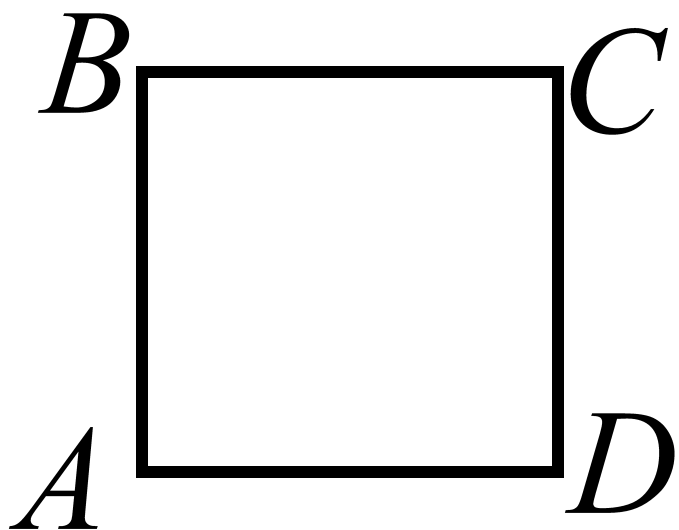
2. $a_{кв} = 1дм, то S_{кв} = 1дм^2 = 100см^2$

3. $a_{кв} = 1м, то S_{кв} = 1м^2 = 100дм^2 = 10000см^2$

4. $a_{кв} = 10м, то S_{кв} = 100м^2 = 1сотка = 1ар$

5. $a_{кв} = 100м, то S_{кв} = 10000м^2 = 1га$

№2



$$S_{\text{кв.}} = a^2.$$

$\hat{A}\hat{A}\hat{N}\hat{D} - \hat{e}\hat{a}\hat{a}\hat{d}\hat{a}\hat{o}$,

$$\hat{a} = 16; 24; 19.$$

$$S_{ABCD} = ?$$

$$S_{ABCD} = (16)^2 = 256$$

$$S_{ABCD} = (24)^2 = 576.$$

$$S_{ABCD} = (19)^2 = 361.$$

№3

12

4

$$S = 48$$

15

6

$$S = 90$$

9

7

$$S = 63$$

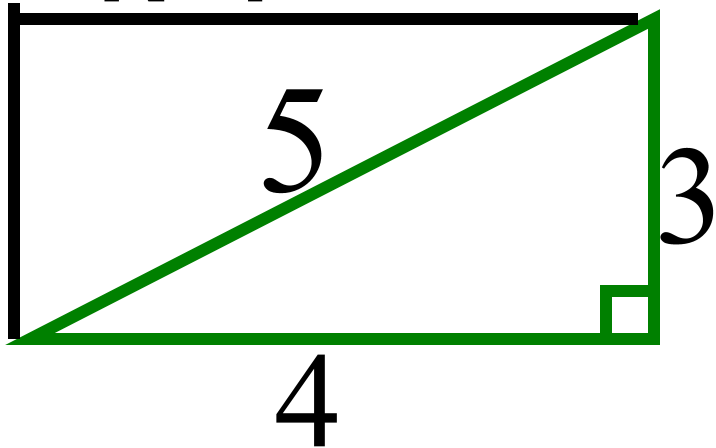
13

$$S = 156$$

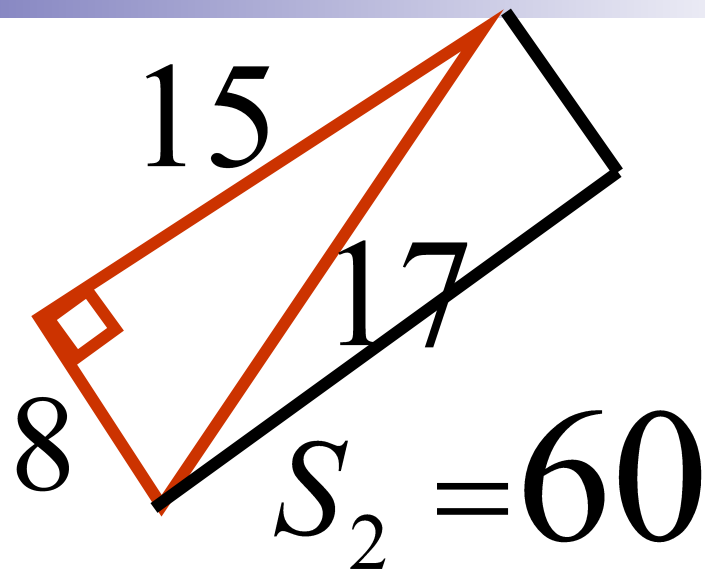
12

$$S = ab$$

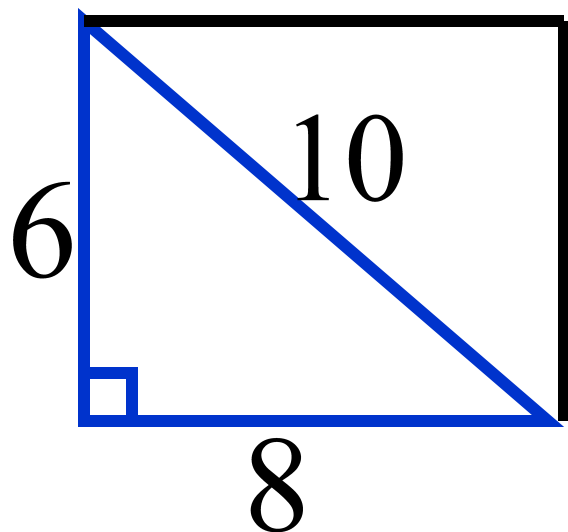
№4



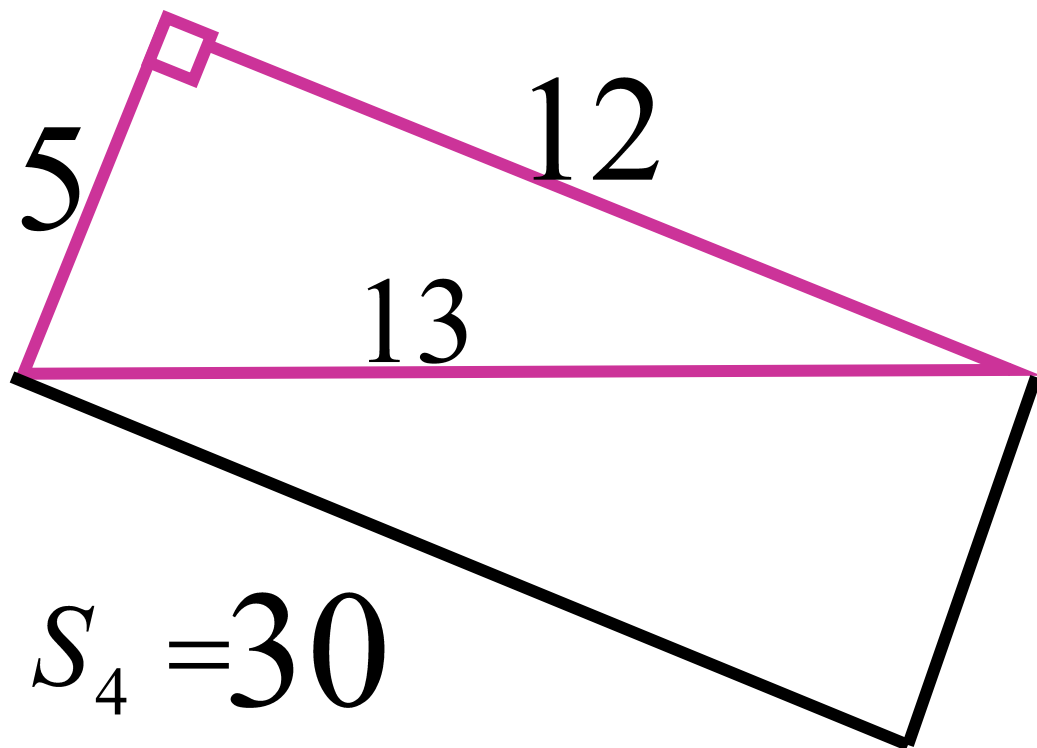
$$S_1 = 6$$



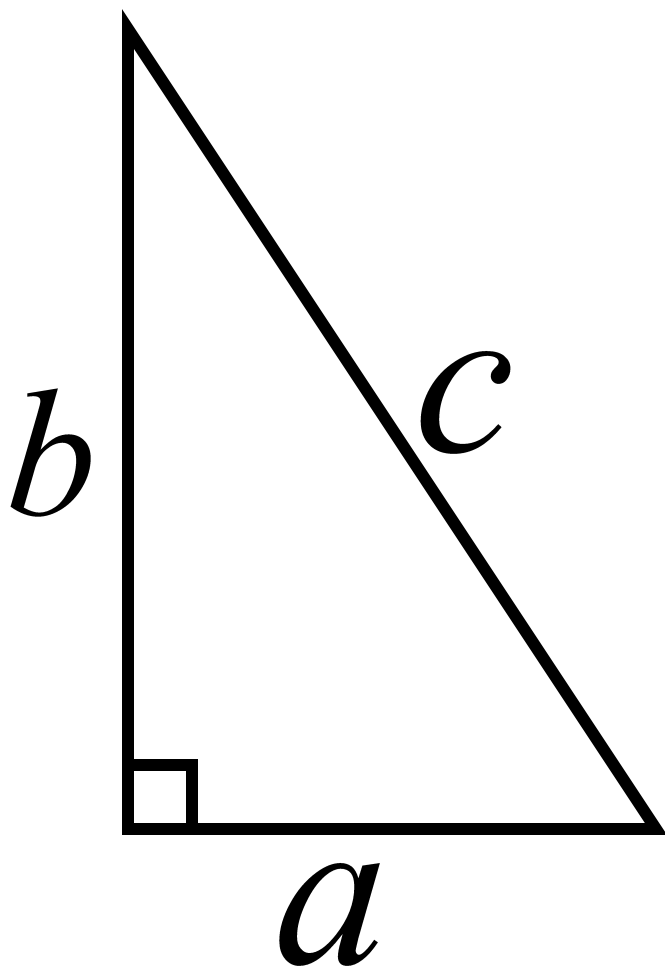
$$S_2 = 60$$



$$S_3 = 24$$

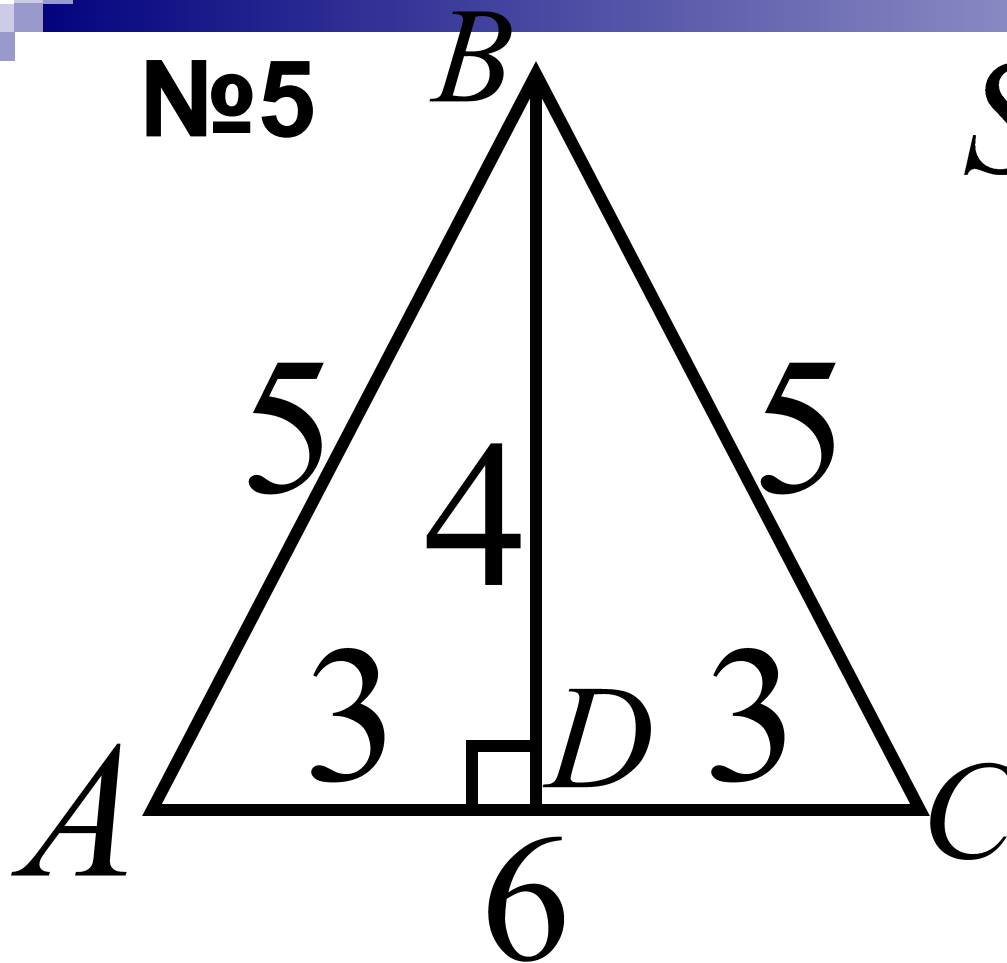


$$S_4 = 30$$



$$S_{\text{прям.тр.}} = \frac{1}{2} ab.$$

№5



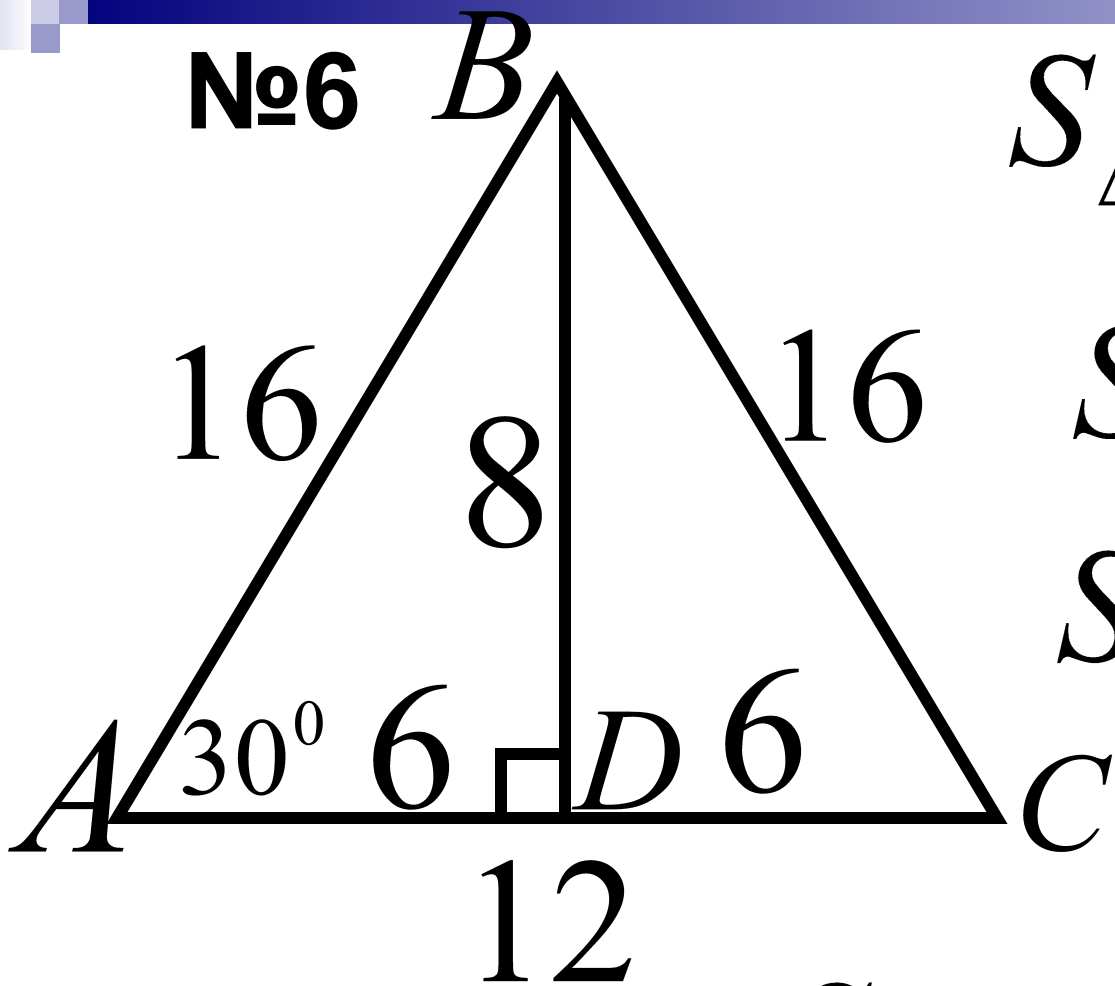
$$S_{\triangle ABC} =$$

$$S_{\triangle ABD} = 6$$

$$S_{\triangle BCD} = 6$$

$$S_{\triangle ABC} = 12$$

№6



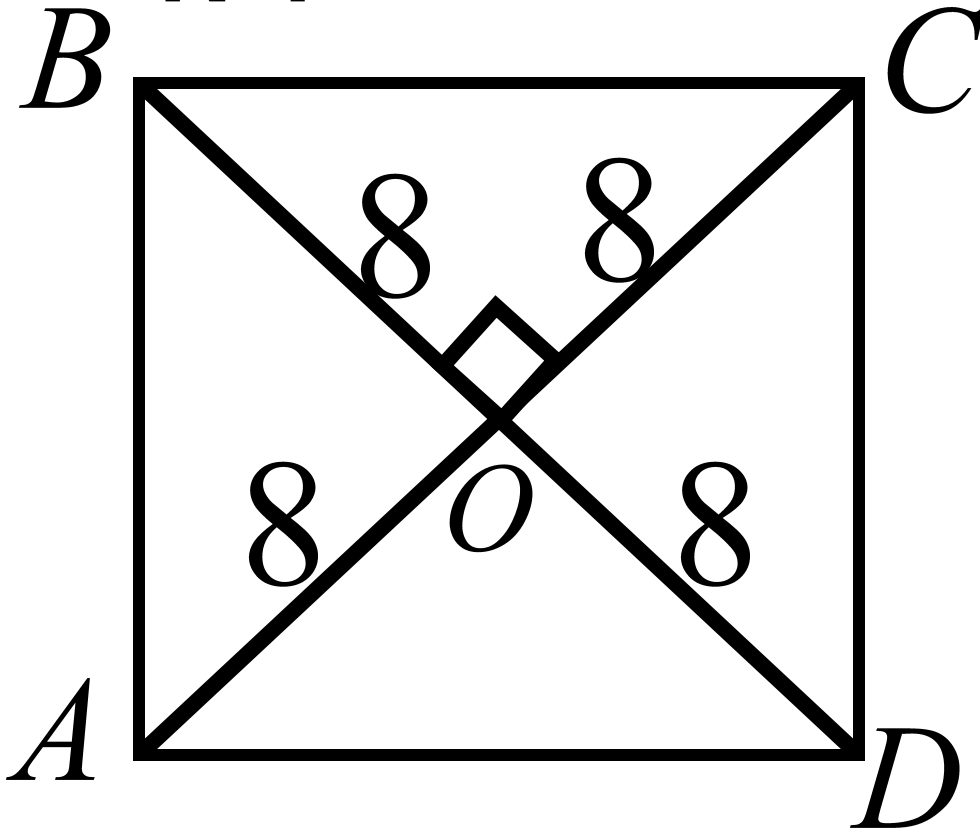
$$S_{\triangle ABC} =$$

$$S_{\triangle ABD} = 24$$

$$S_{\triangle BCD} = 24$$

$$S_{\triangle ABC} = 48$$

№7



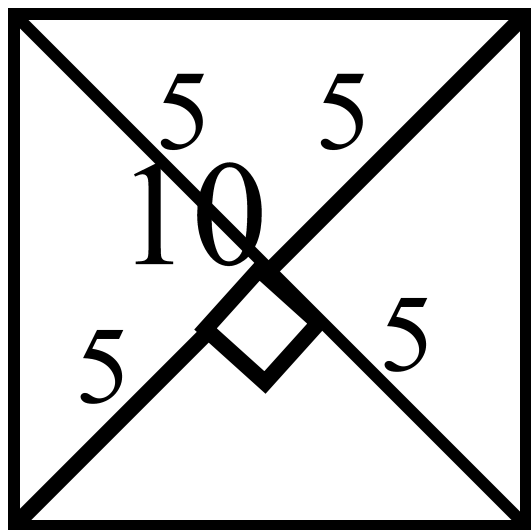
$ABCD$ – квадрат,
 $BD = 16$.

$$S_{ABCD} = ?$$

$$S_{ABCD} = 128$$

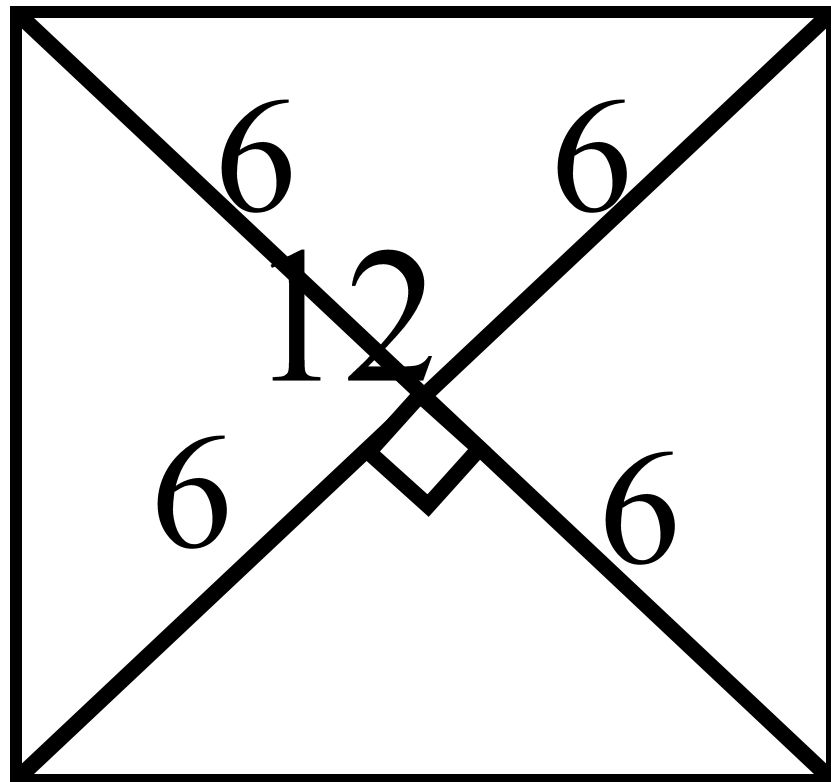
$$S_{\triangle BOC} = \frac{1}{2} BO \cdot OC = 32$$

№8



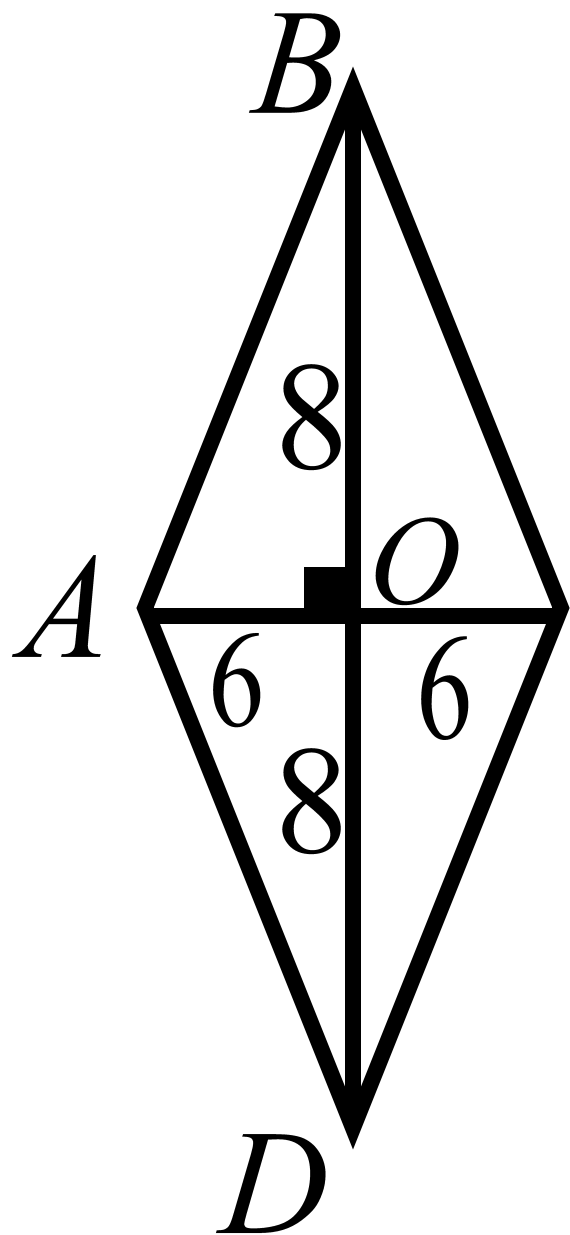
$$S_{\Delta} = \frac{1}{2} \cdot 5 \cdot 5 = 12,5$$

$$S_{\text{квадр.}} = 4 \cdot 12,5 = 50$$



$$S_{\Delta} = \frac{1}{2} \cdot 6 \cdot 6 = 18$$

$$S_{\text{квадр.}} = 4 \cdot 18 = 72$$



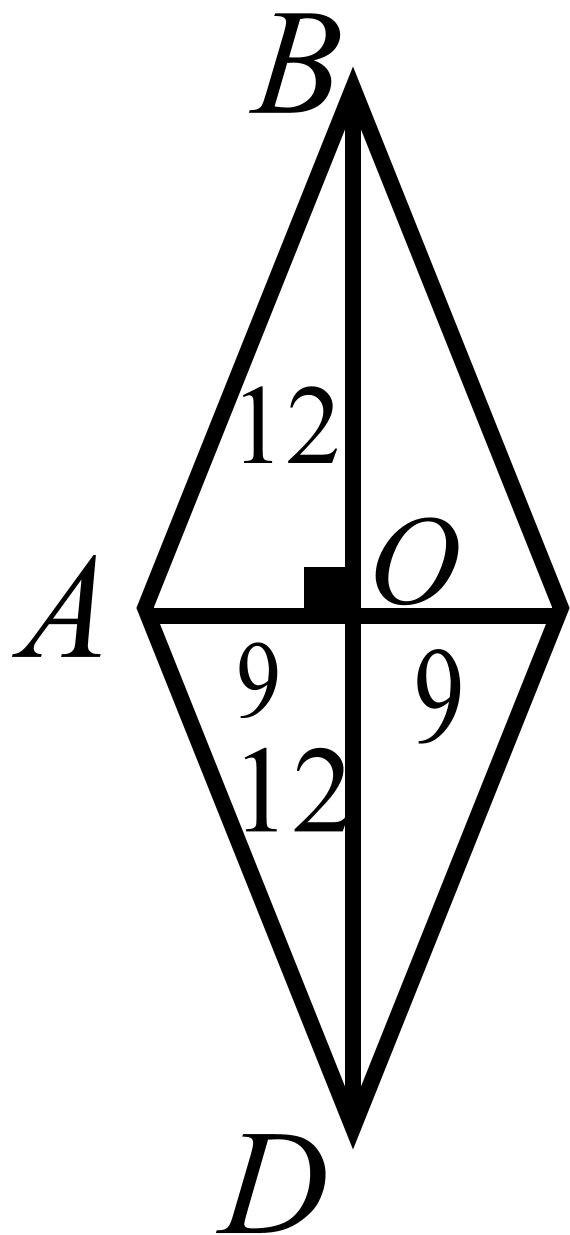
№9 $ABCD$ – ромб,
 $BD = 16, AC = 12;$

$$S_{ABCD} = ?$$

$$S_{\triangle BOC} = \frac{1}{2} BO \cdot OC,$$

$$S_{\triangle BOC} = 24,$$

$$S_{ABCD} = 96.$$



№10 $ABCD$ – ромб,

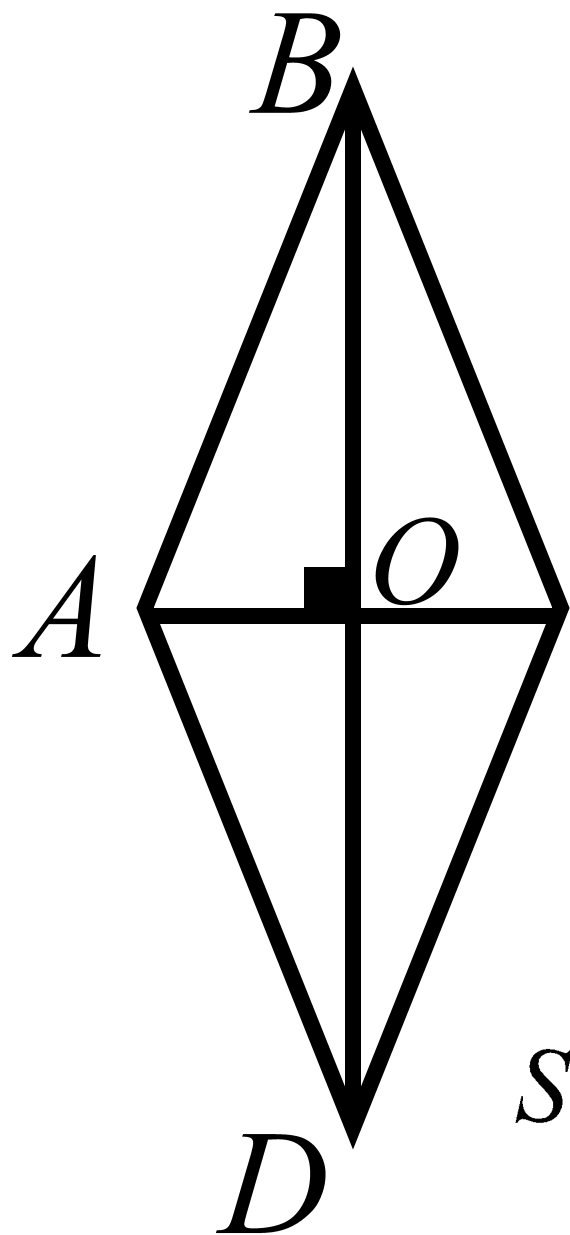
$$BD = 24, AC = 18;$$

$$S_{ABCD} = ?$$

$$S_{\triangle BOC} = \frac{1}{2} BO \cdot OC,$$

$$S_{\triangle BOC} = 54,$$

$$S_{ABCD} = 216.$$



№11 $ABCD$ – ромб,

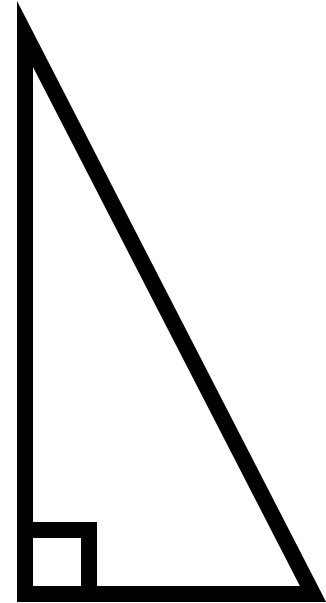
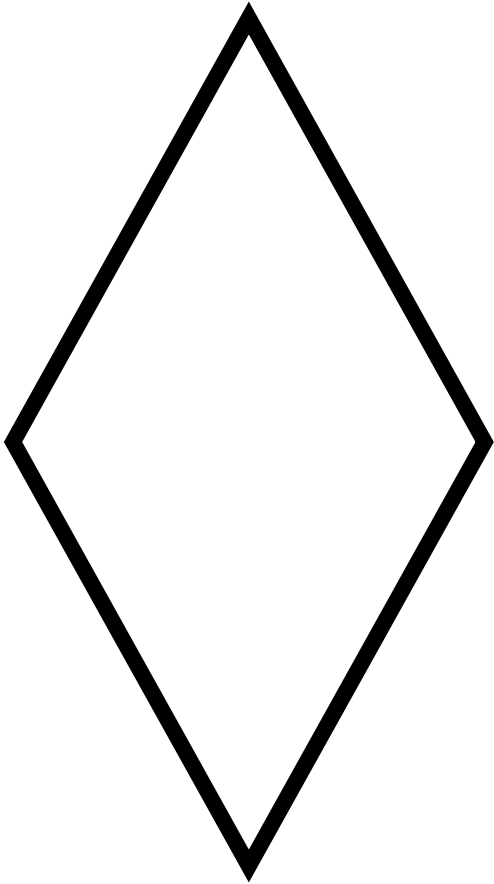
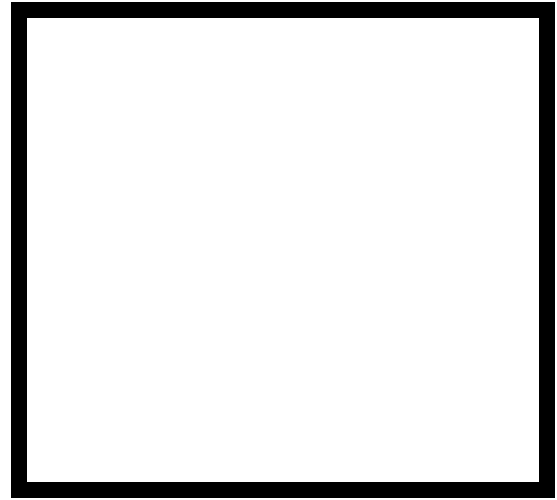
$$BD = d_1, AC = d_2;$$

$$S_{ABCD} = ?$$

$$S_{\triangle BOC} = \frac{1}{2} BO \cdot OC,$$

$$S_{\triangle BOC} = \frac{1}{2} \cdot \frac{1}{2} d_1 \cdot \frac{1}{2} d_2,$$

$$S_{ABCD} = 4 \cdot \frac{1}{8} d_1 \cdot d_2 = \frac{1}{2} d_1 \cdot d_2.$$





ДЗ: пункт 48, 49.

**№449(аб), 450 (а,б),
452 (авг), 453, 455**

