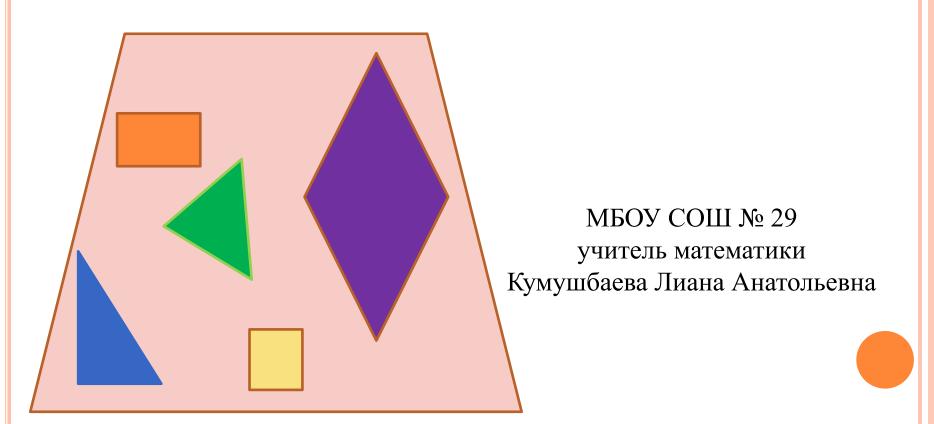
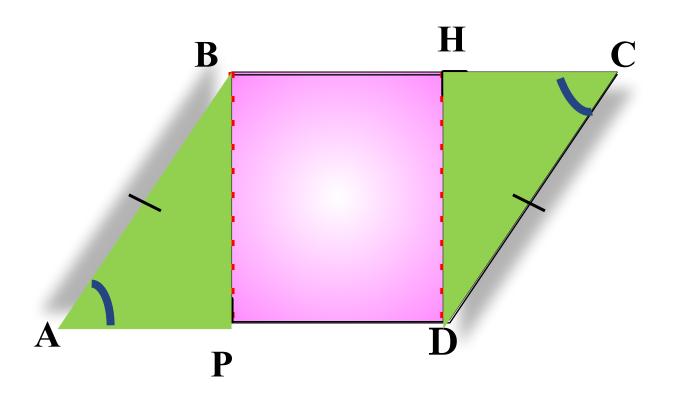
#### Площадь плоских фигур

8 класс



### Площадь параллелограмма



F

B

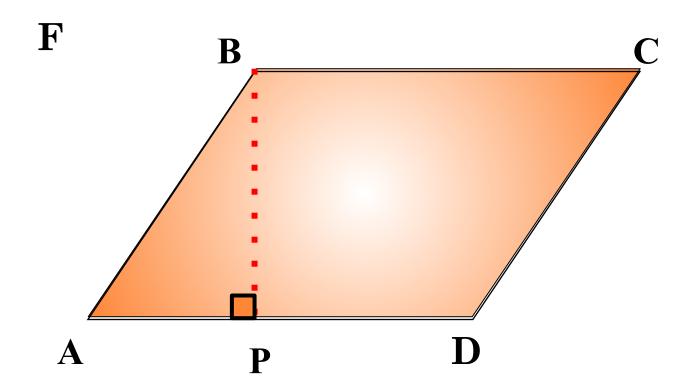
H

C

S<sub>2</sub>

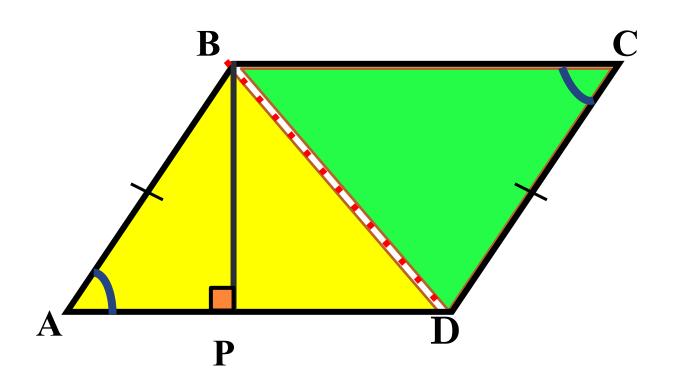
S<sub>1</sub>

$$S_1$$
 $S_2$ 
 $S_1$ 
 $S_2$ 
 $S_1$ 
 $S_2$ 
 $S_1$ 
 $S_2$ 
 $S_3$ 
 $S_4$ 
 $S_5$ 
 $S_5$ 



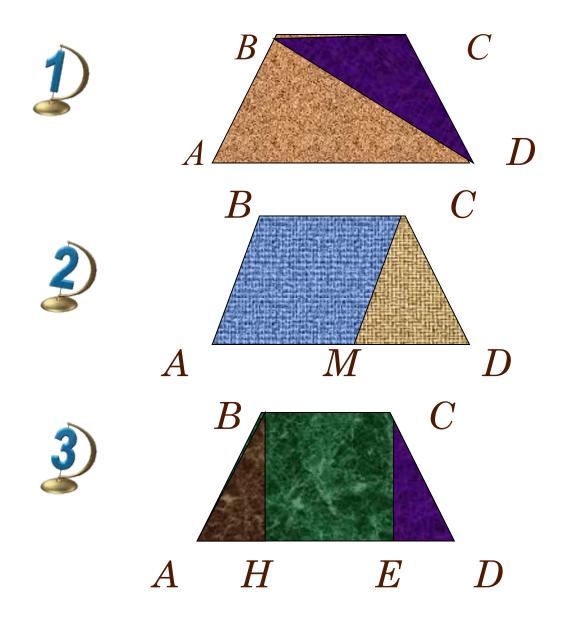
$$S = PB \cdot AD$$

# Площадь треугольника



## Площадь трапеции





$$S_{ABCD} = S_{ABM} + S_{BMC} + S_{MCD}$$

$$S_{ABM} = \frac{1}{2}AM \cdot BP$$
  $S_{BMC} = \frac{1}{2}BC \cdot MR$   $S_{MCD} = \frac{1}{2}MD \cdot CT$ 

$$S_{ABCD} = \frac{1}{2}AM \cdot BP + \frac{1}{2}BC \cdot MR + \frac{1}{2}MD \cdot CT$$

$$BP = MR = CT$$

$$S_{ABCD} = \frac{1}{2}AM \cdot BP + \frac{1}{2}BC \cdot BP + \frac{1}{2}MD \cdot BP$$

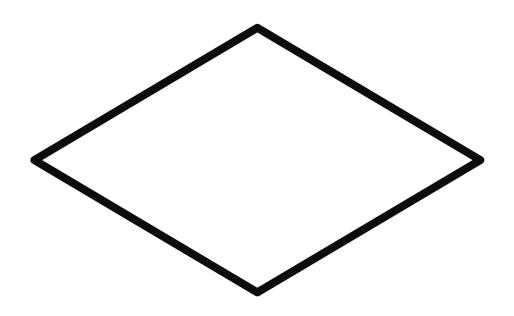
$$S_{ABCD} = \frac{1}{2}BP(AM + BC + MD)$$

$$AD = AM + MD$$

$$S_{ABCD} = \frac{1}{2}BP(AD + BC)$$

$$S_{ABCD} = \frac{1}{2}BP(AD + BC)$$

#### Площадь ромба



$$S_{ABCD} = S_{ABC} + S_{ACD}$$

$$C$$

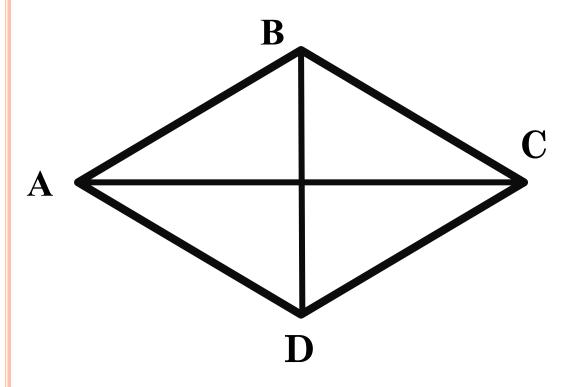
$$S_{ABC} = \frac{1}{2}AC \cdot BH$$

$$S_{ABCD} = \frac{1}{2}AC \cdot DH$$

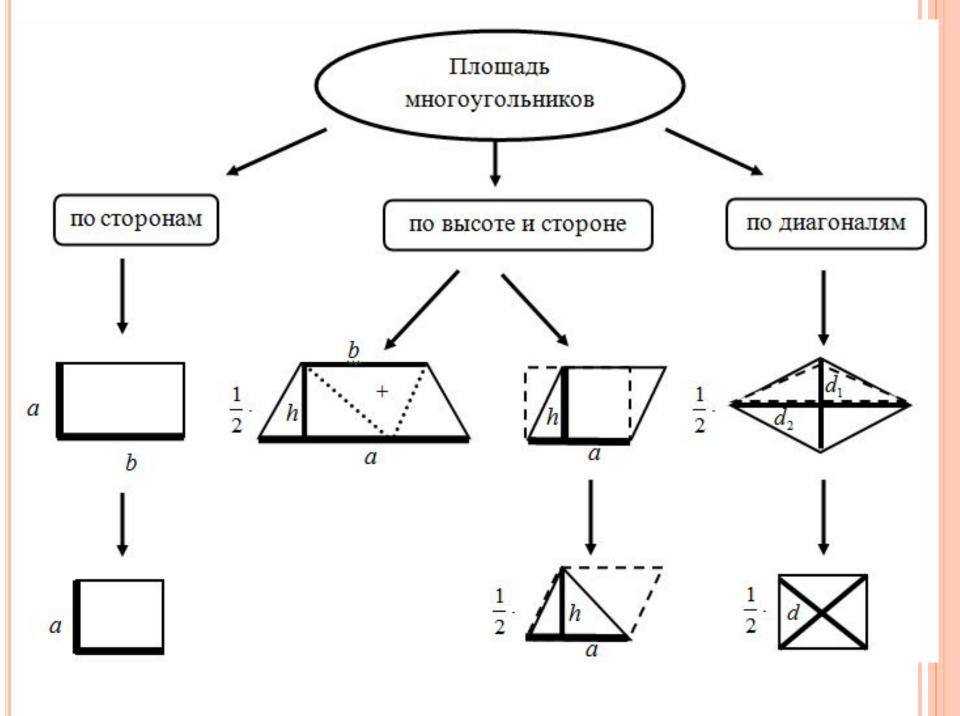
$$S_{ABCD} = \frac{1}{2}AC \cdot BH + \frac{1}{2}AC \cdot DH$$

$$BD = BH + HD$$

$$S_{ABCD} = \frac{1}{2}AC(BH + HD) = \frac{1}{2}BD \cdot AC$$



$$S_{ABCD} = \frac{1}{2}BD \cdot AC$$



#### Спасибо за внимание!

