

Предмет:Геометрия на английском языке

Тема: «Ромб»

Класс:8

Repetition

1

2

3

4

5

6

7

8

1. What is a quadrilateral?



2. What is a parallelogram?



3. Formula perimeter of a parallelogram?



4. Which angles are equal in parallelogram?



5. What is the sum of the angles in quadrilateral?



6. What is a rectangle?



7. Formula perimeter of a rectangle ?



8. Formula area of a rectangle?



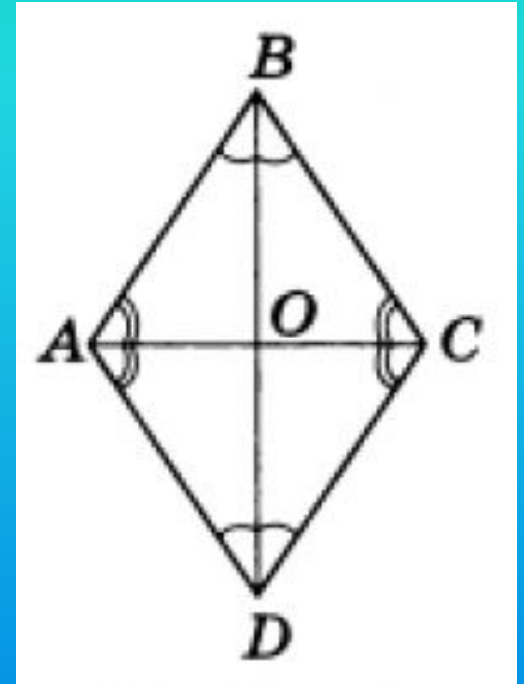
Rhombus

D. A rhombus is a parallelogram that has four congruent sides.

Property. The diagonals of a rhombus are perpendicular.
 $AC \perp BD$

Property. In a rhombus ABCD, the diagonals AC and BD bisect each other since a rhombus is a parallelogram.
 $AO = OC = BO = OD$

Property. Each diagonal in a rhombus bisects two angles of the rhombus.
For example: the diagonal AC is the bisector of angles A and C,
the diagonal BD is the bisector of angles B and D



Perimeter of a rhombus

$$P=DC+CB+AB+AD=4a$$

Area of a rhombus

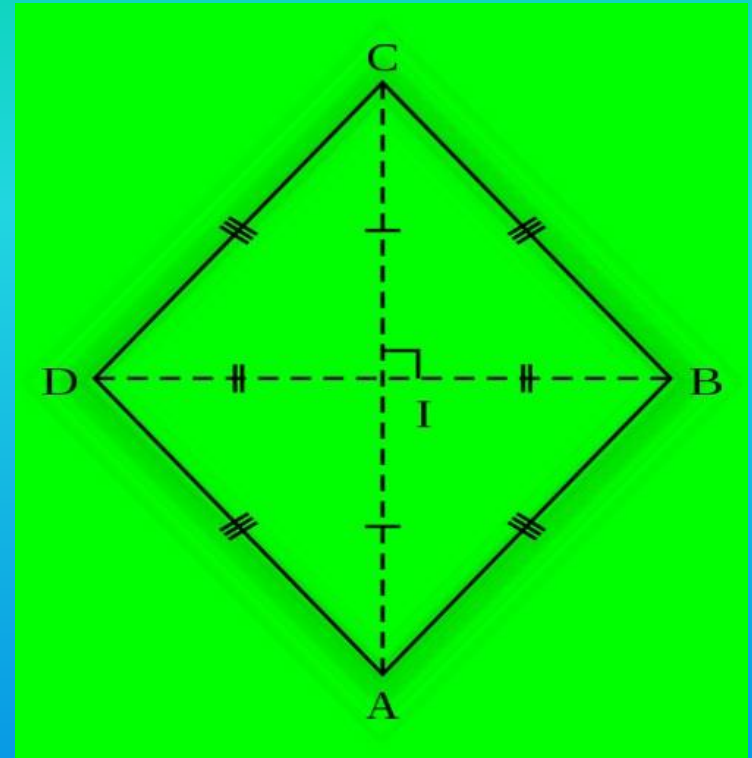
The area of a rhombus is the product of the length of any side and length of the corresponding altitude.

$$A=a*h$$

The area of a rhombus is also equal to half of the product of the lengths of its diagonals.

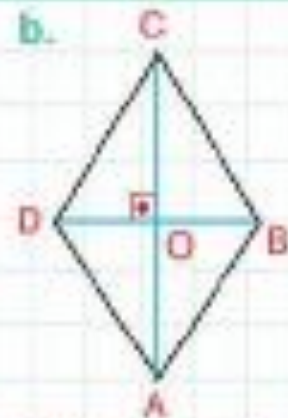
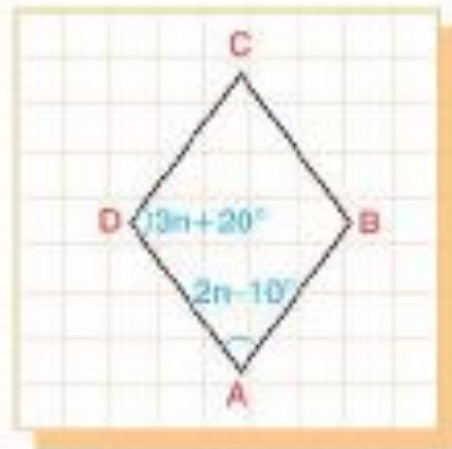
If $AC=f$, $DB=e$

$$A=\frac{AC*BD}{2} \quad A=\frac{f*e}{2}$$



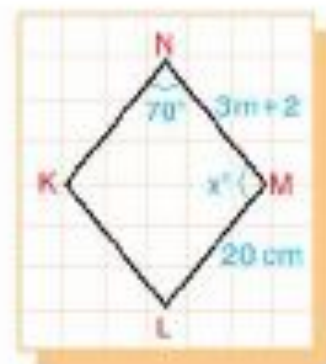
Find the perimeter and area of each rhombus.

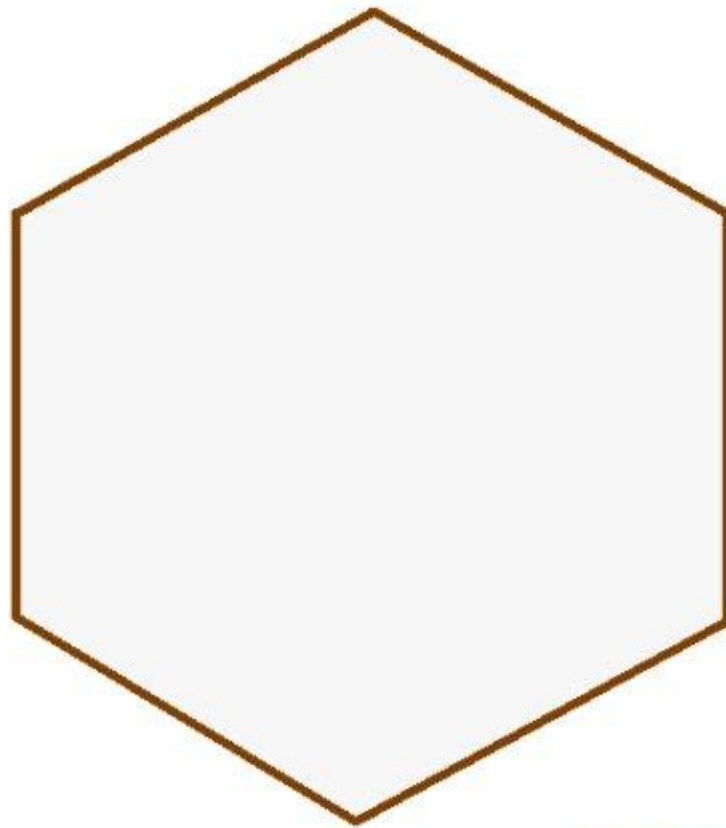
3. In the figure, ABCD is a rhombus with
 $m\angle DAB = 2n - 10^\circ$
and
 $m\angle ADC = 3n + 20^\circ$.
Find $m\angle B$ and $m\angle C$.

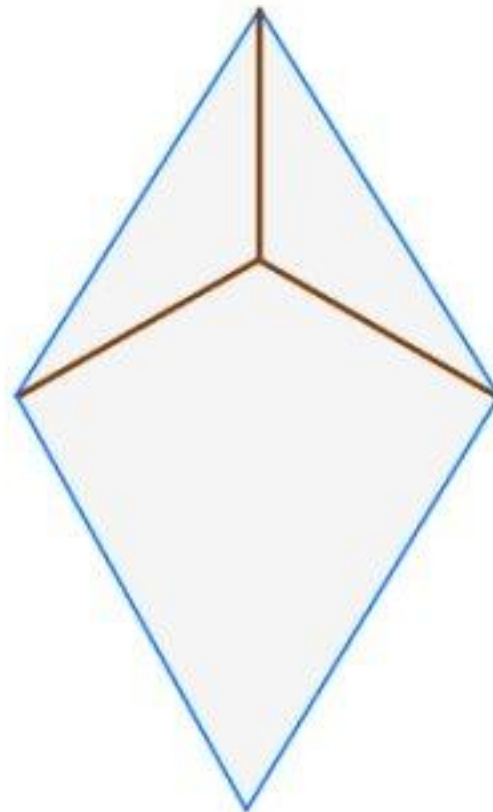
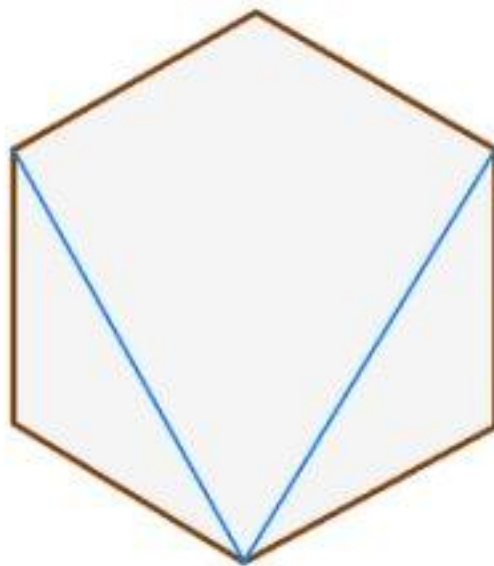


$$|DB| = e = 12 \text{ cm}$$
$$|AC| = f = 16 \text{ cm}$$

2. In the figure, KLMN is a rhombus with
 $m\angle KNM = 70^\circ$,
 $m\angle LMN = x^\circ$,
 $|ML| = 20 \text{ cm}$, and
 $|MN| = 3m + 2$.
Find m and x .







PoteheChas.ru

The link between rhombus and life

