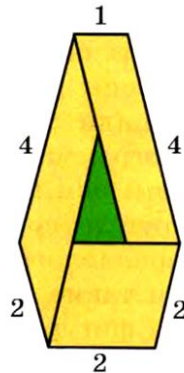
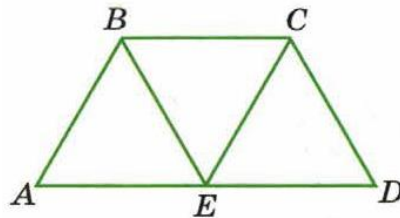


Math 5a, homework 17.

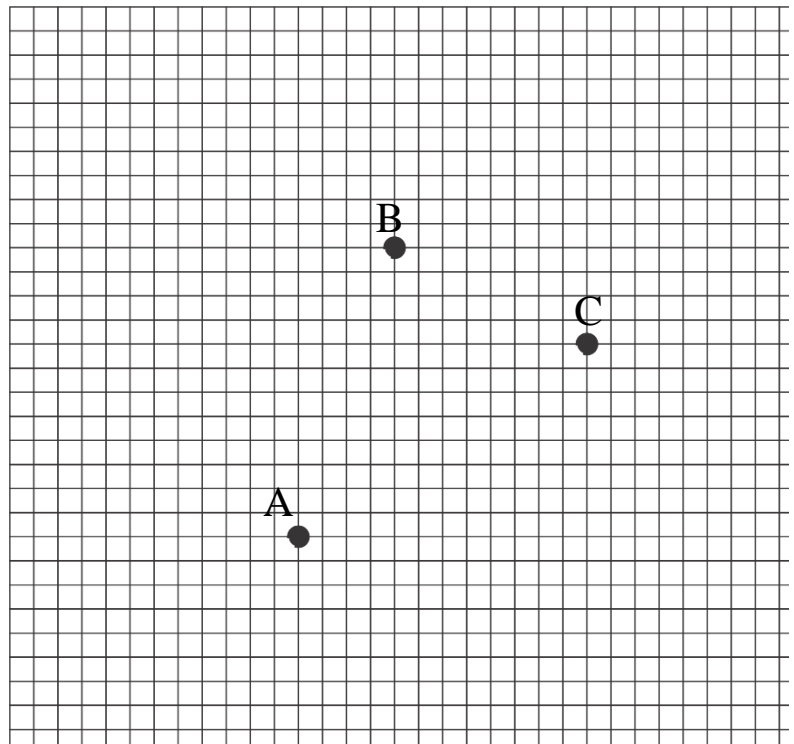
1. All quadrilaterals on the picture are parallelograms. What are the lengths of the sides of green triangle?



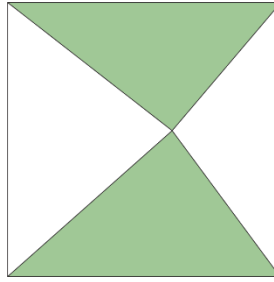
2. $ABCE$ and $BEDC$ are rhombuses. $|BC|$ is 3 cm. Find the perimeter of triangle BEC . What are the angles of this triangle.



3. Points A, B, and C are vertices of a parallelogram. Draw all possible parallelograms.



4. Which part of the square is shaded?

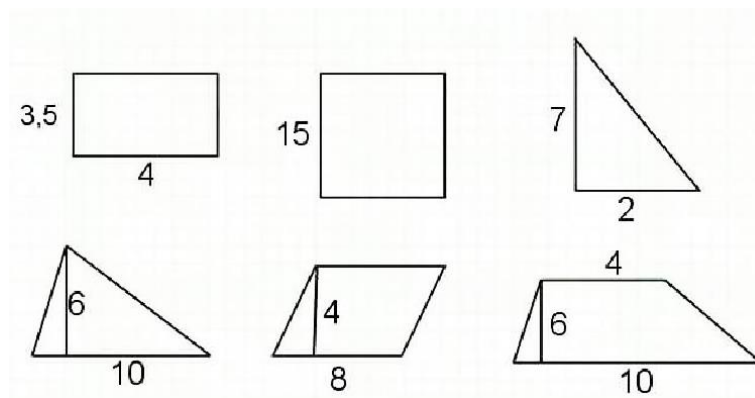


5. On a graph paper draw a square with the area equal to 5, 8, 9, 10, 15, 17, and 20 cells.

6. Find the sum of

$$\frac{1}{2 \cdot 3} + \frac{1}{3 \cdot 4} + \frac{1}{5 \cdot 6} + \dots + \frac{1}{2023 \cdot 2043}$$

7. Calculate the area of the shapes:



8. Find the value of the expression:

$$x(1 + y) - y(xy - 1) - xy^2 \text{ if } x + y = -1 \text{ and } xy = 1$$