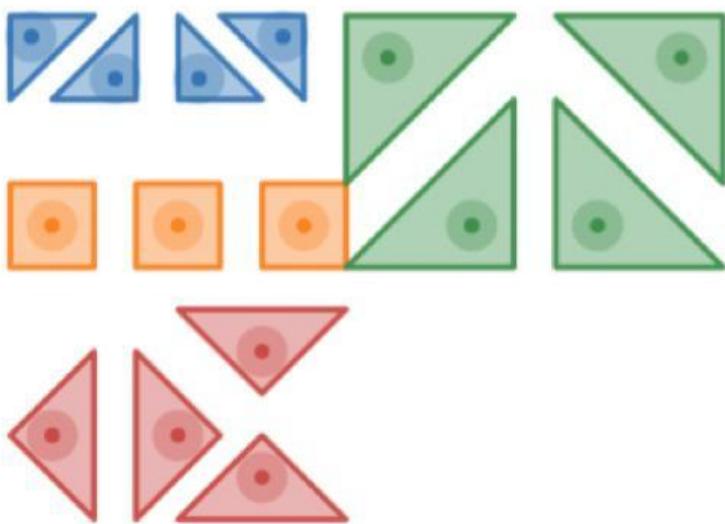


- 1) This interactive graph has some squares and some small, medium, and large right triangles.

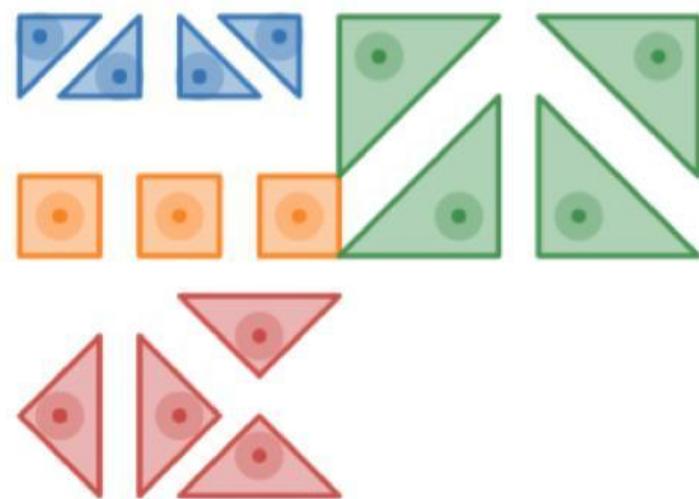
Click on a shape and drag to move it.

The area of each square is 1 square unit.

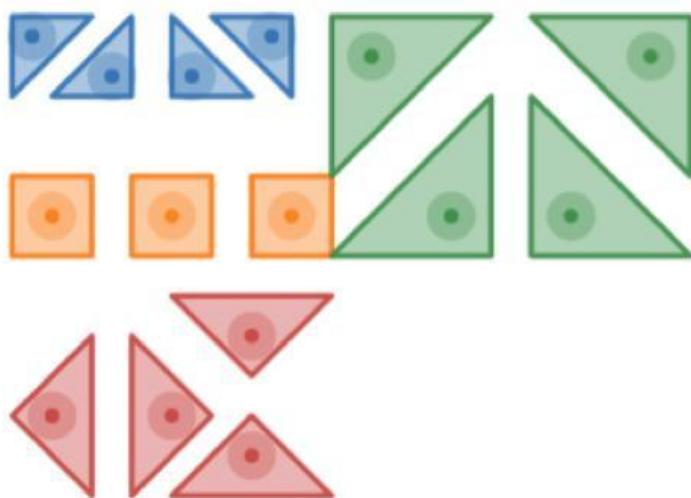
Notice that you can put together two small triangles to make a square. What is the AREA, in square units, of the square composed of two small triangles?



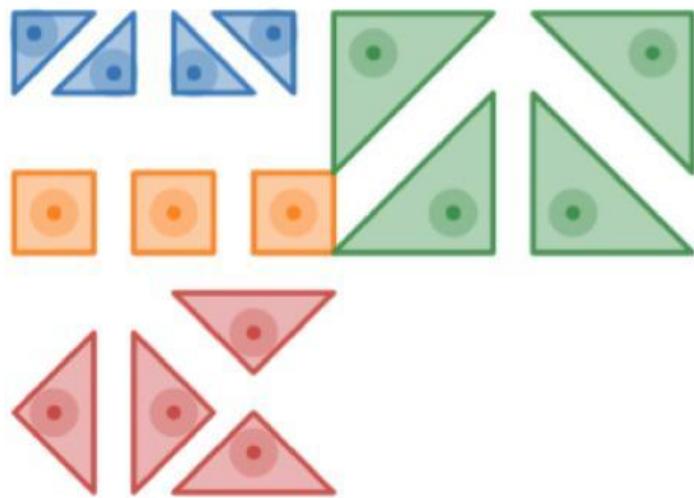
2) Use your shapes to create a NEW shape with an area of 1 square unit that is NOT a square. Explain how you know the area is 1 square unit.



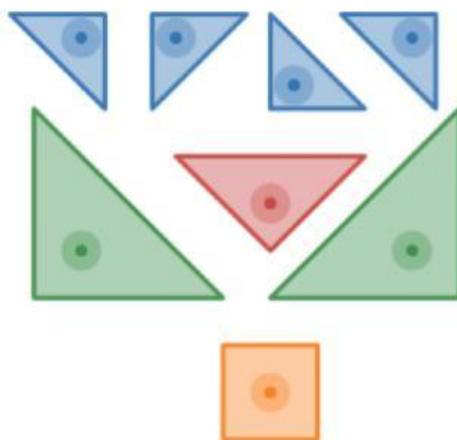
3) Use your shapes to create a new shape with an area of 2 square units. Explain how you know the area is 2 square units.



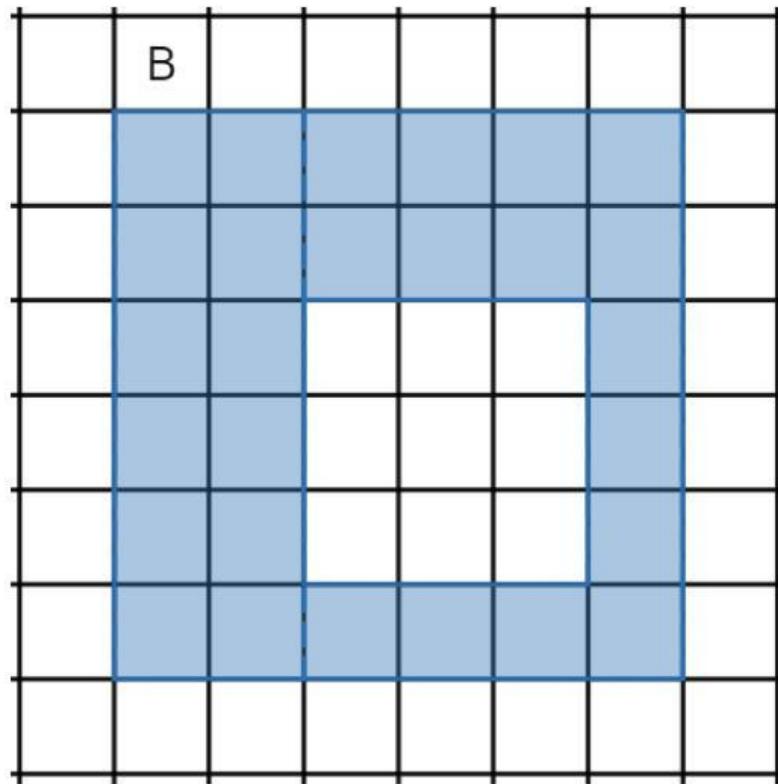
4) Use your shapes to create a DIFFERENT shape with an area of 2 square units. Explain how you know the area is 2 square units.



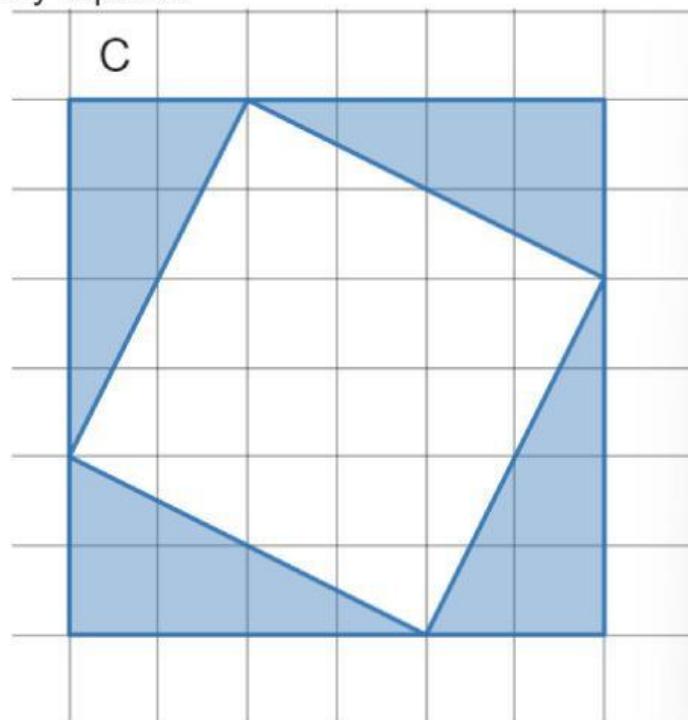
5) Find a way to use all of these pieces to compose a single large square. What is the area of this large square?



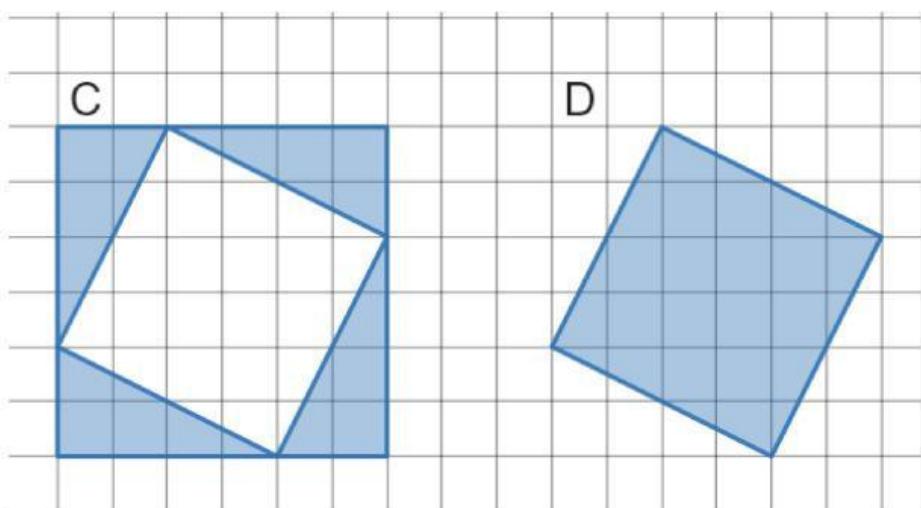
6) Find the area, in square units, of each shaded region without counting every square.



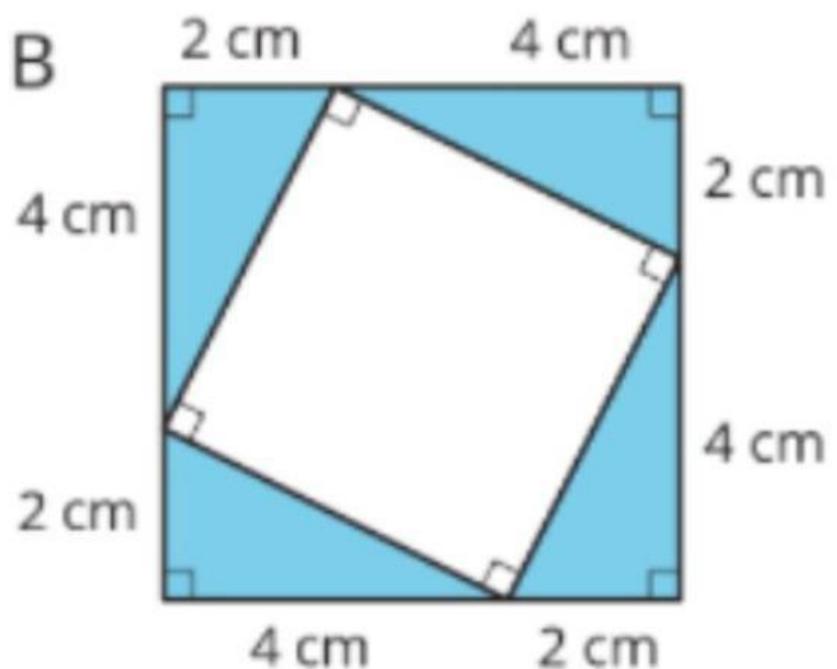
7) Find the area, in square units, of each shaded region without counting every square.



8) How do the areas of shape C and shape D compare?



9) Find the area of the shaded region(s) of each figure.



10)