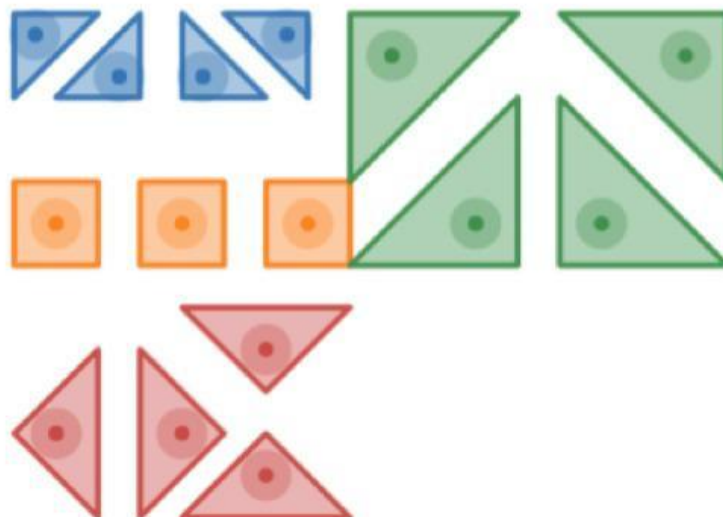


1) This interactive graph has some squares and some small, medium, and large right triangles.

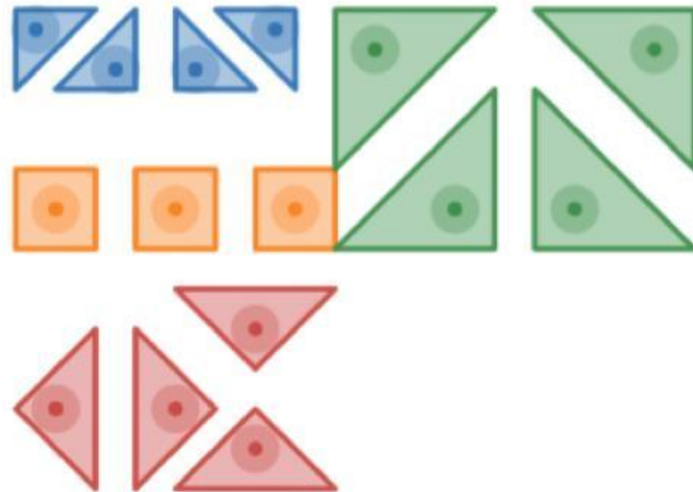
Click on a shape and drag to move it.

The area of each square is 1 square unit.

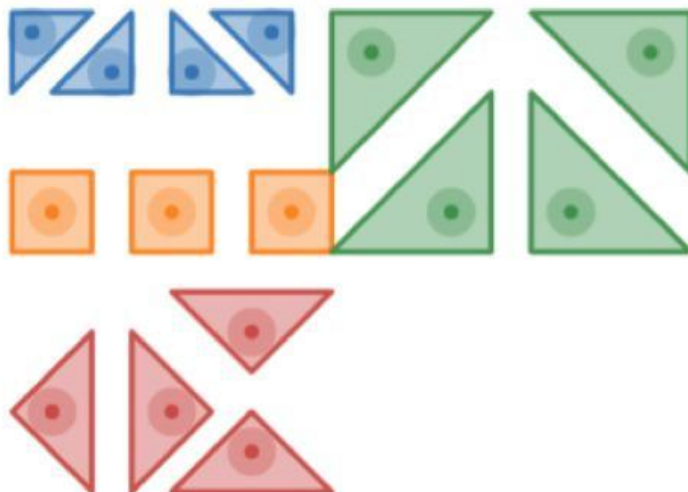
Notice that you can put together two small triangles to make a square. What is the AREA, in square units, of the square composed of two small triangles?



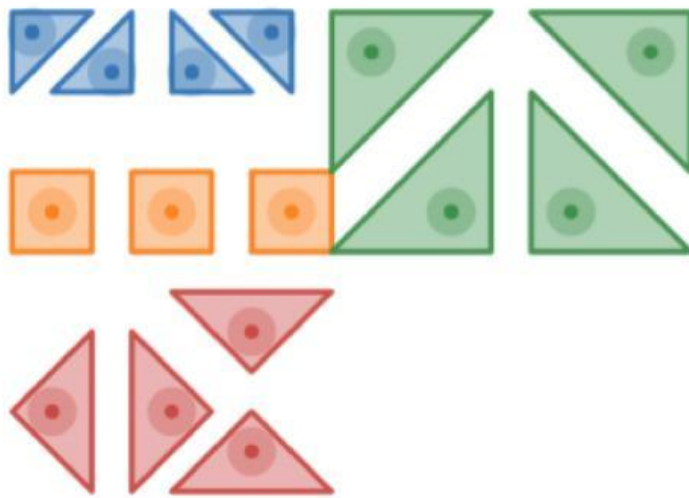
- 2) Use your shapes to create a NEW shape with an area of 1 square unit that is NOT a square. Explain how you know the area is 1 square unit.



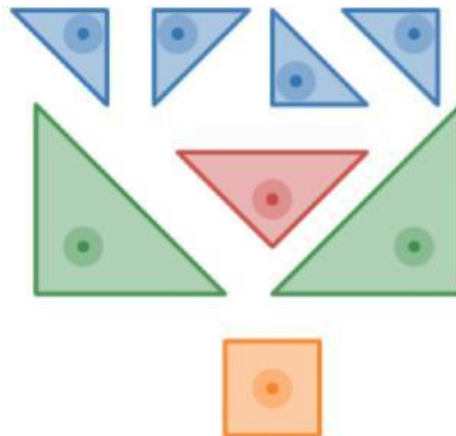
- 3) Use your shapes to create a new shape with an area of 2 square units. Explain how you know the area is 2 square units.



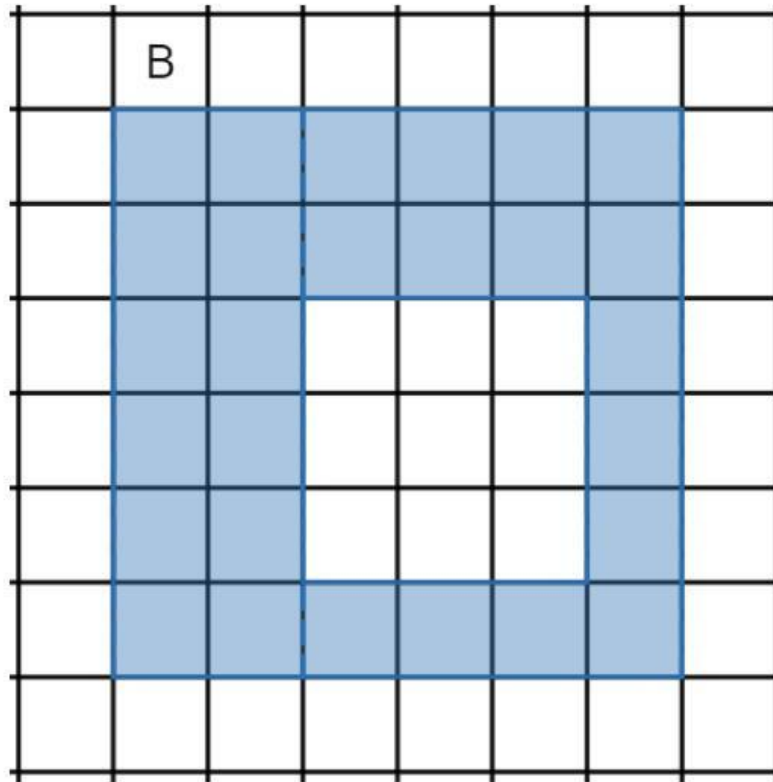
- 4) Use your shapes to create a DIFFERENT shape with an area of 2 square units. Explain how you know the area is 2 square units.



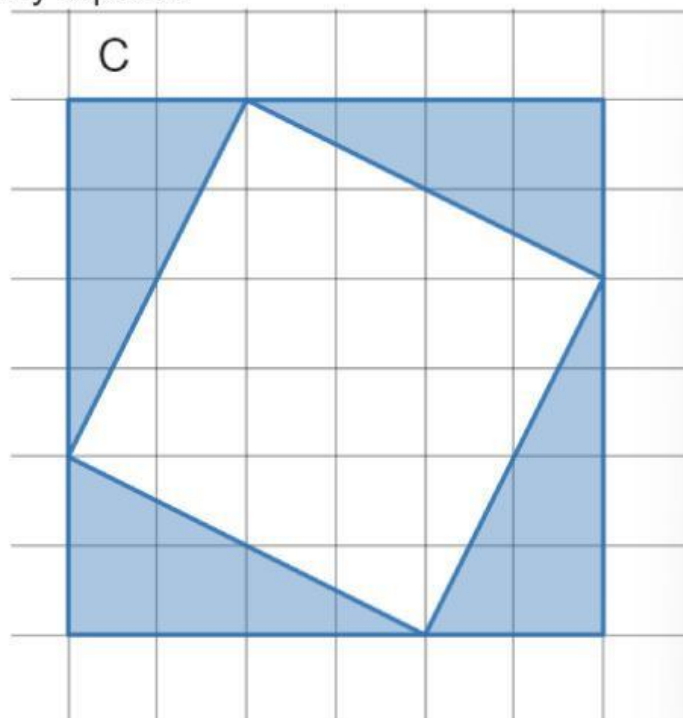
- 5) Find a way to use all of these pieces to compose a single large square. What is the area of this large square?



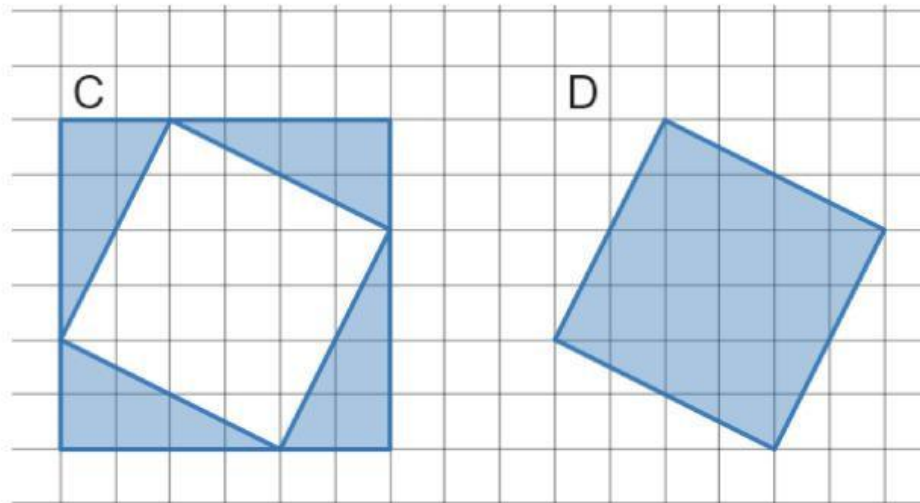
- 6) Find the area, in square units, of each shaded region without counting every square.



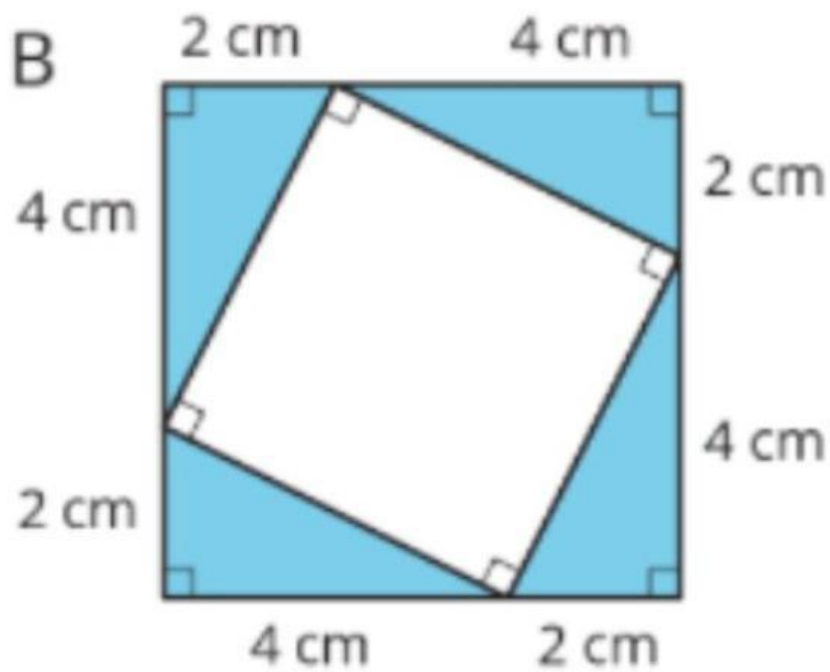
- 7) Find the area, in square units, of each shaded region without counting every square.



- 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)