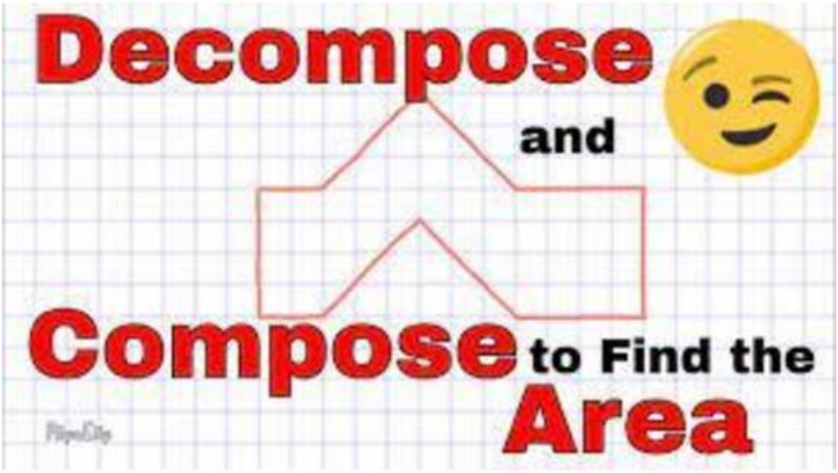
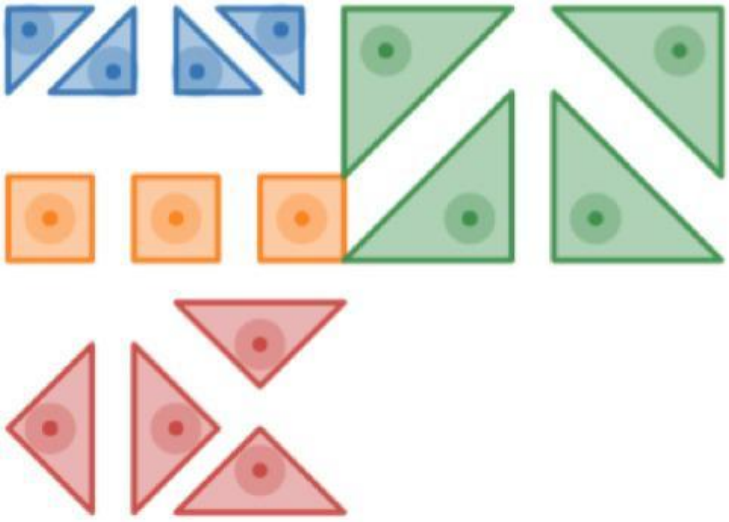


1) This interactive graph has some squares and some small, medium, and large right triangles.

Click on a shape and drag to move it.

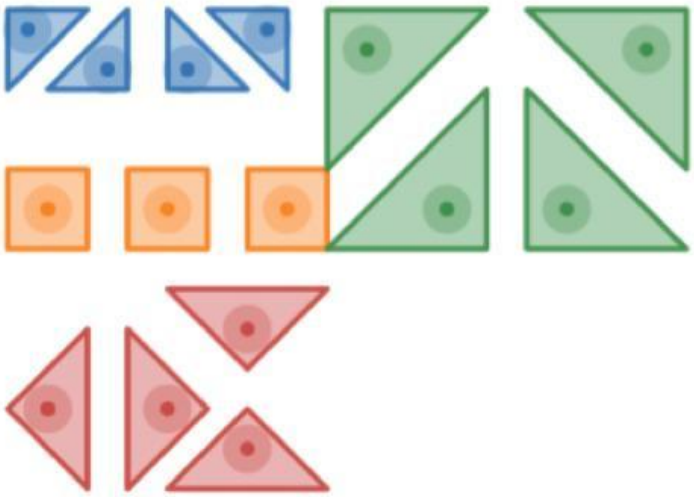
The area of each square is 1 square unit.

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?

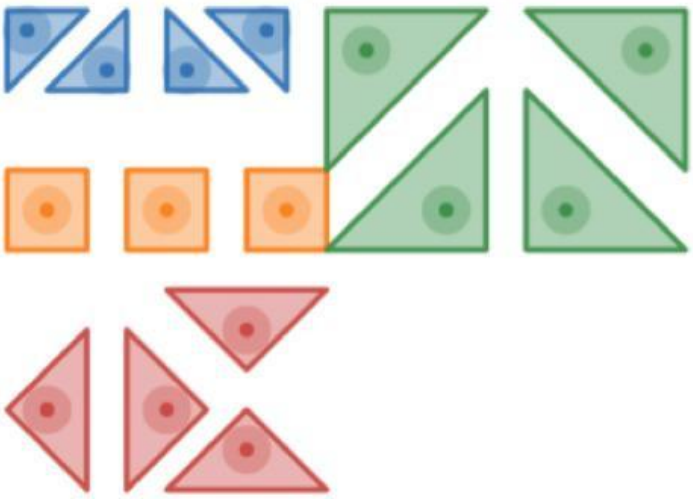


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2) Use your shapes to create a NEW shape with an area of 1 square unit that is NOT a square. Explain how you know the area is 1 square unit.

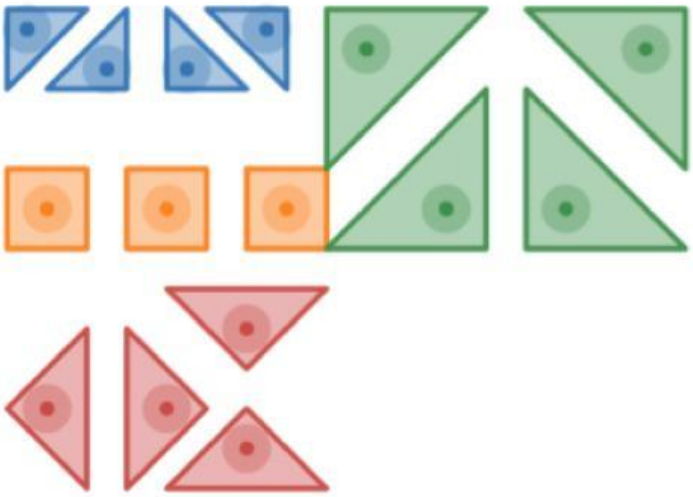


3) Use your shapes to create a new shape with an area of 2 square units. Explain how you know the area is 2 square units.

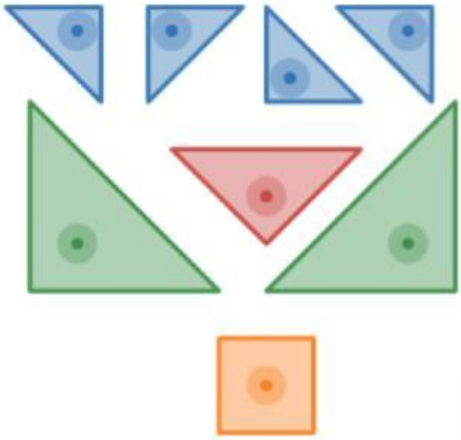


4) Use your shapes to create a DIFFERENT shape with an area of 2 square units. Explain how you know the area is 2 square units.

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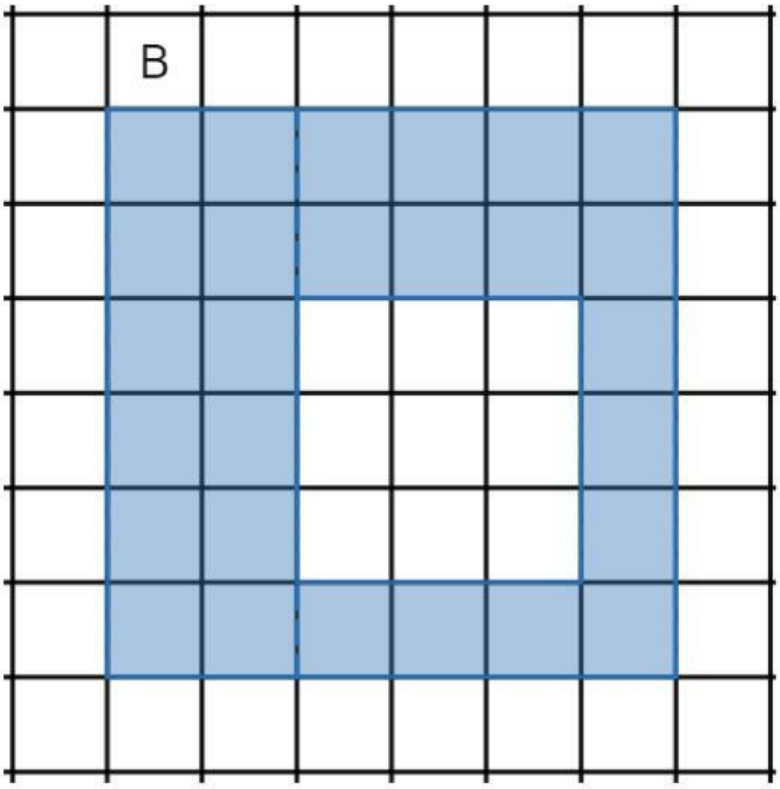


5) Find a way to use all of these pieces to compose a single large square. What is the area of this large square?

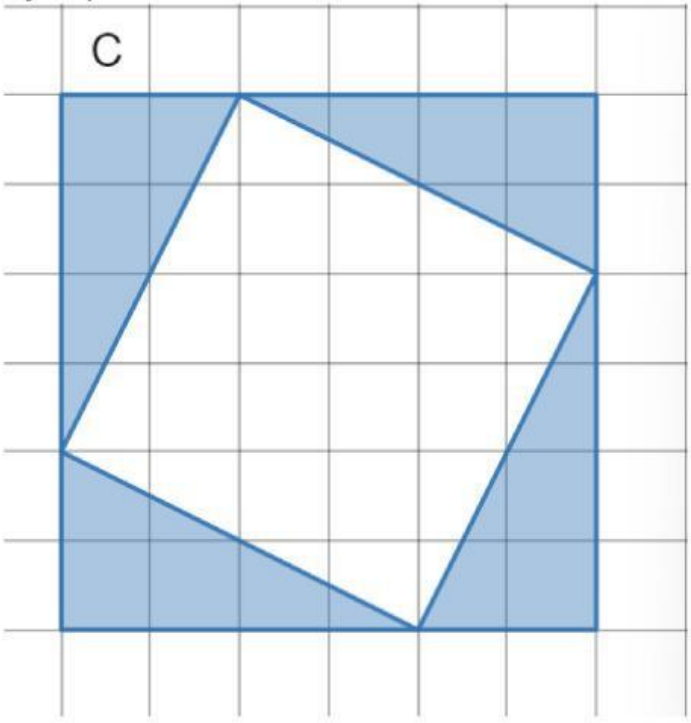


6) Find the area, in square units, of each shaded region without counting every square.

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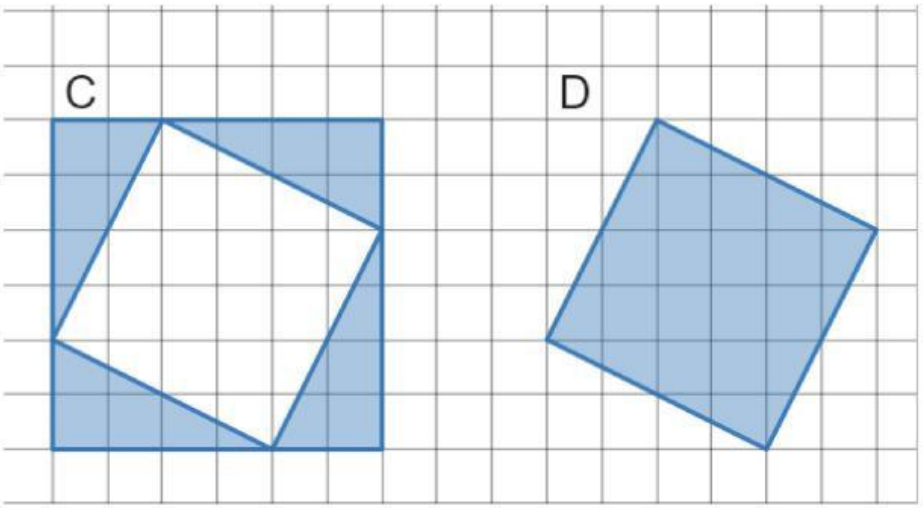


7) Find the area, in square units, of each shaded region without counting every square.

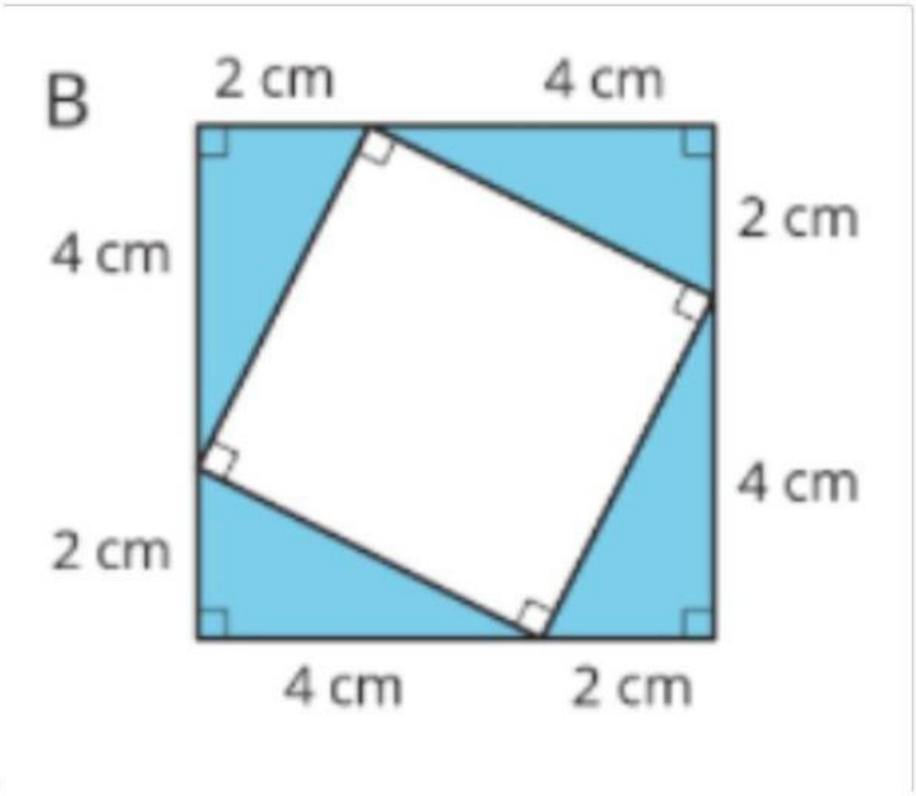


8) How do the areas of shape C and shape D compare?

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



10)

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