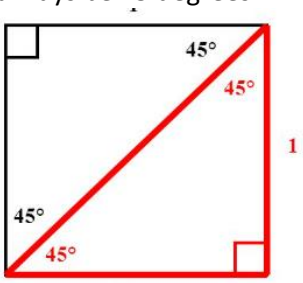
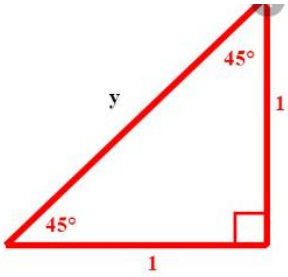
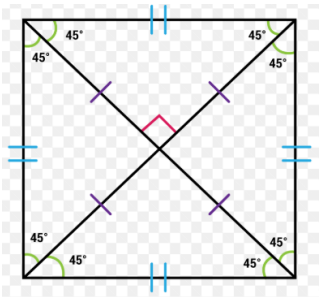
Monday 08.06.20
WALT: Calculating Angles

Remember that half a 90 degree angle is 45 degrees. If you draw a diagonal line through a square the angle will always be 45 degrees:

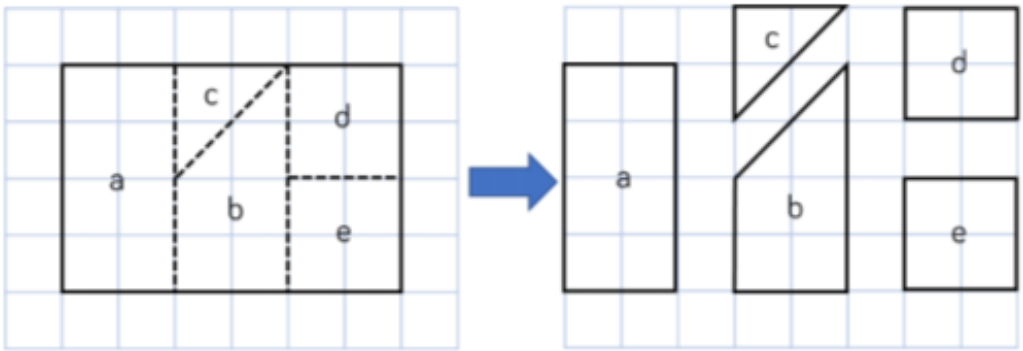






1)

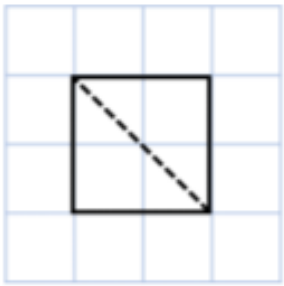
Calculate the size of the angles in each shape.

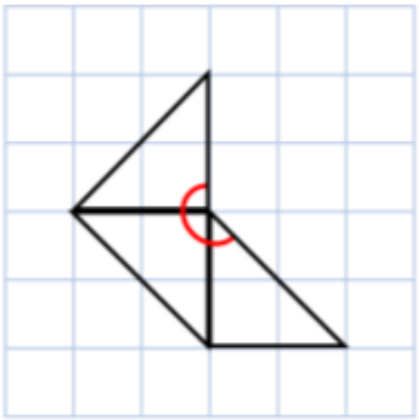


What's the same? What's different?

2)

Here is a square cut into two triangles.

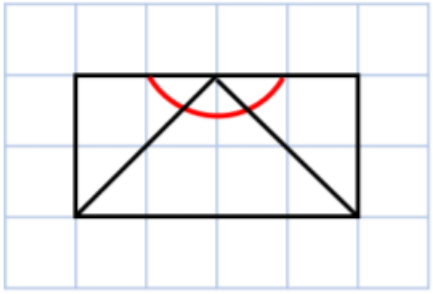




Use the square to calculate the size of the angle.

3) Reasoning and Problem solving

Whitney is calculating the missing angles in the shape.



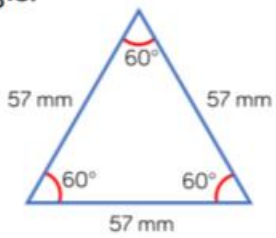
She says,

The missing angles are 60 degrees because 180 ÷ 3 = 60

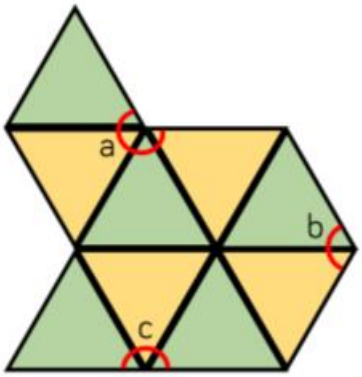
Do you agree?
Explain why.

4)

Alex has this triangle.



She makes this composite shape using triangles identical to the one above.



- Calculate the perimeter of the shape.
- Calculate the missing angles.

Use your own triangle, square or rectangle to make a similar problem?