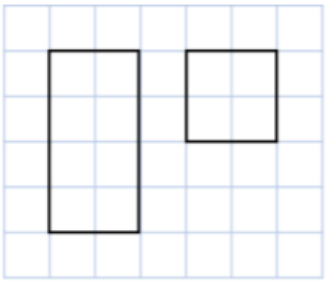
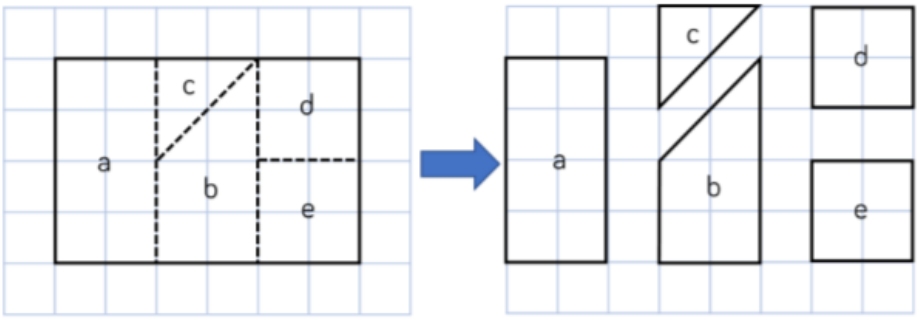
**05/06/20** **WALT measure lengths and angles of shapes.**

Please complete as many of these questions as you are able. You may wish to use a protractor.

Look at the square and the rectangle.
What's the same? What's different?

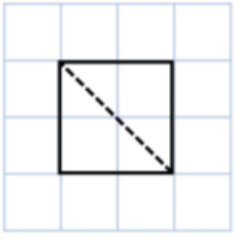


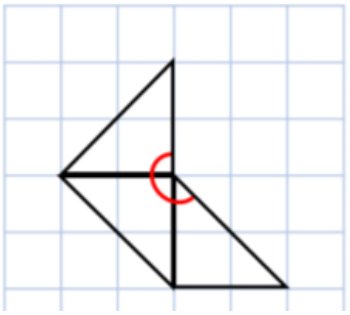
Calculate the size of the angles in each shape.




What's the same? What's different?

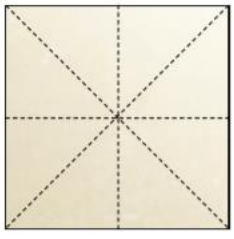
Here is a square cut into two triangles.





Use the square to calculate the size of the angle.

**1)** Take a square piece of paper. Fold it in half lengthways, widthways and then along the diagonals as shown.



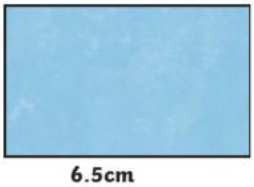
Look at the angles that have been created by the folds. What are the sizes of the angles?

How do you know?
Prove it by using your mathematical knowledge.

How many right angles can you identify? Show them on your piece of paper with the right-angle symbol.

**2)** Here is a rectangular tile.

Using 4 congruent rectangular tiles to create a composite shape, what is the greatest and smallest perimeter possible?

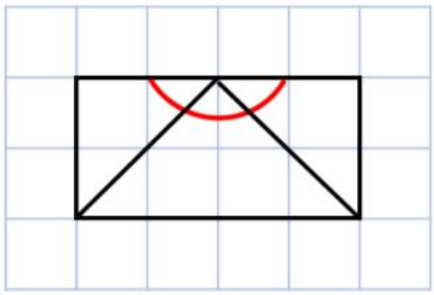



Draw your composite shapes in your book.

**05/06/20** **WALT measure lengths and angles of shapes.**

Extension:

Whitney is calculating the missing angles in the shape.

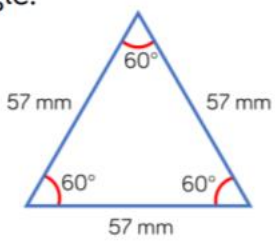


She says,

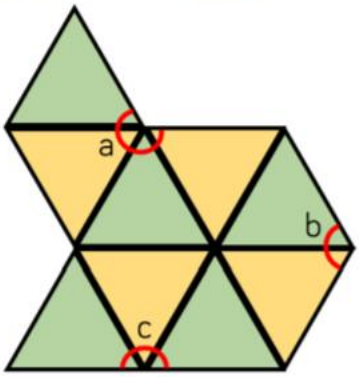
The missing angles are 60 degrees because 180 ÷ 3 = 60

Do you agree?
Explain why.

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?