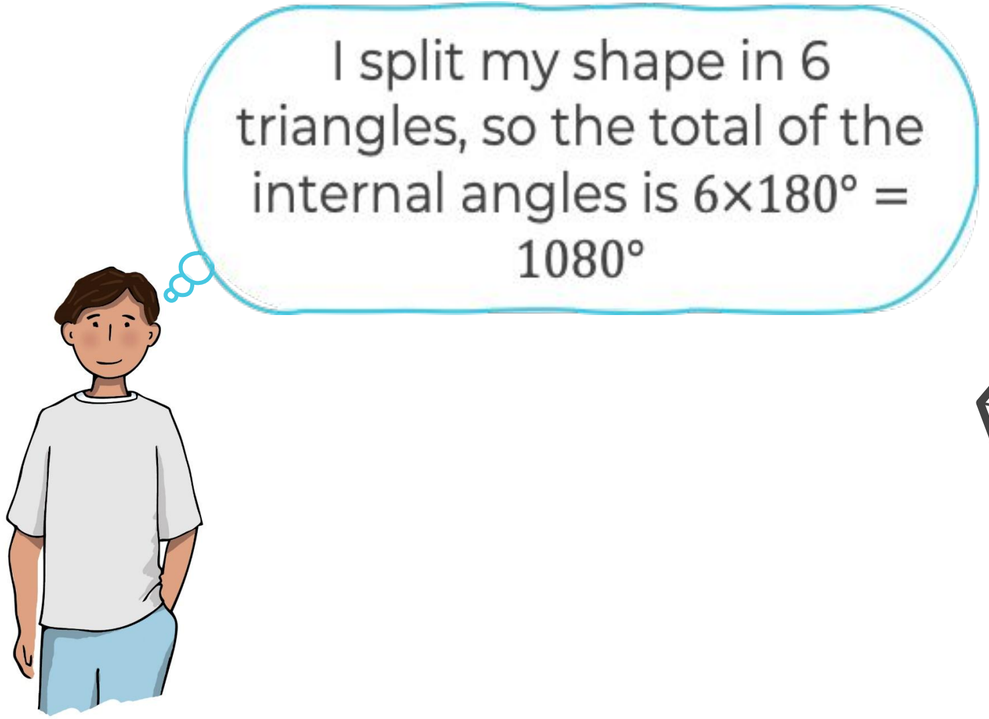
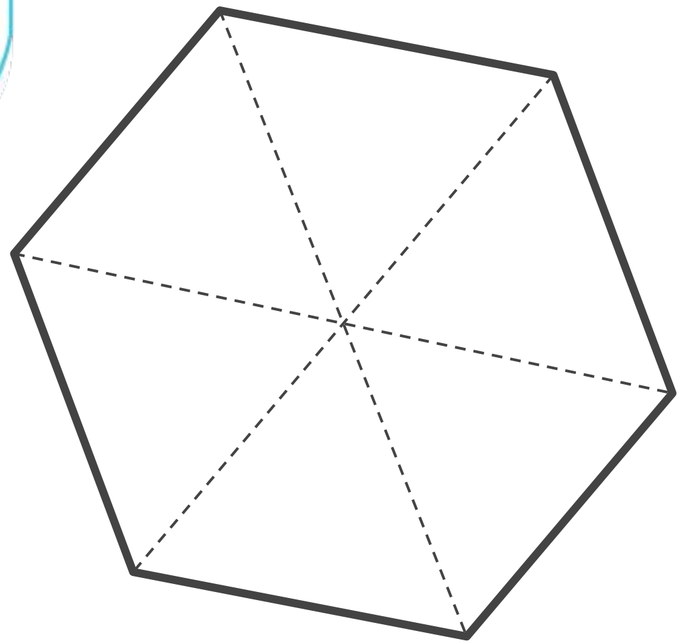
Angles in Polygons

Downloadable Resource – Generalising angles in polygons (Part II)

Mr. Thomas

Try this





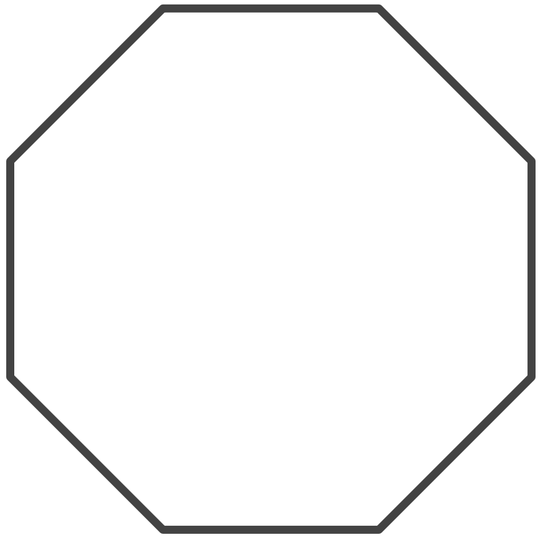
What is Antoni’s error?

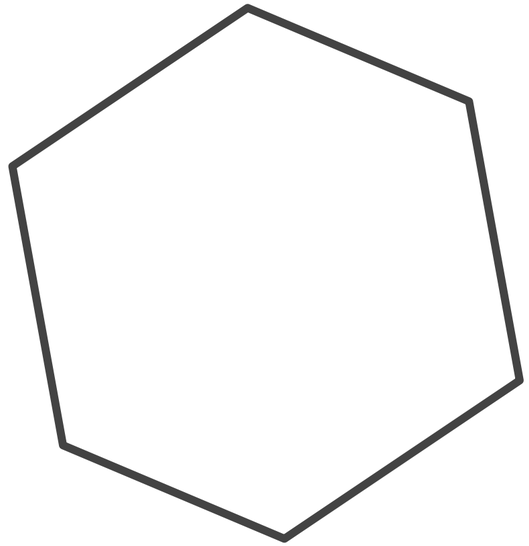
What would you have done differently?

Can you calculate the sum of the internal angles of this hexagon?

Connect

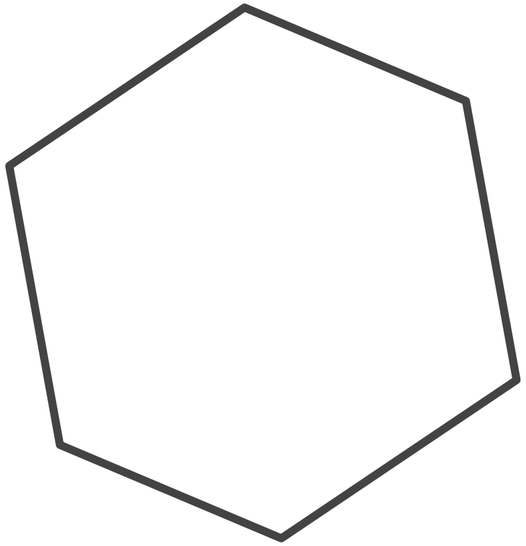
Let's continue this idea further...

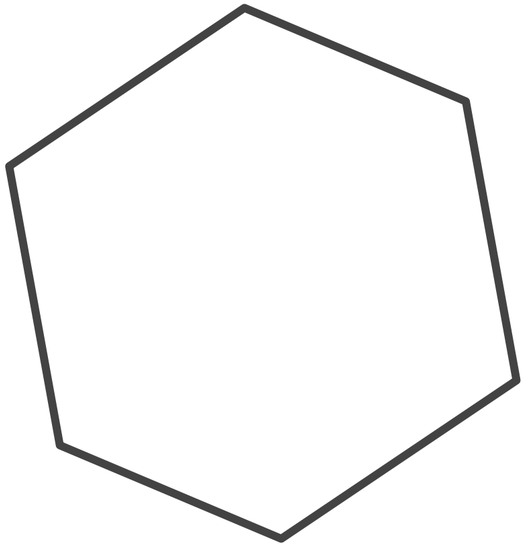


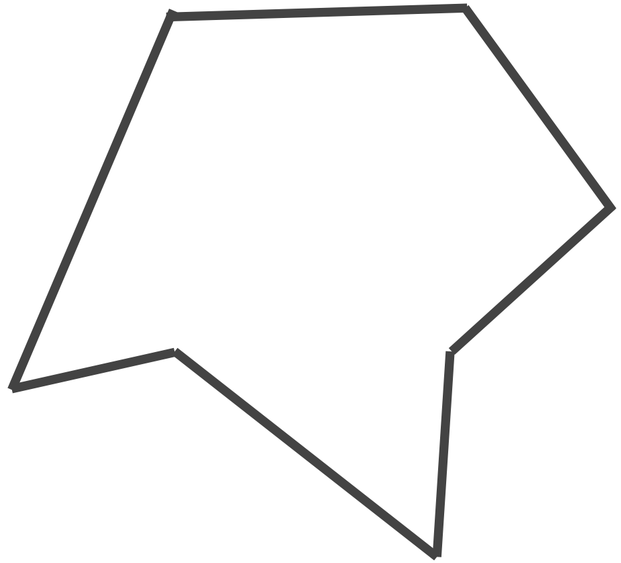


Independent Task

Split these shapes and state what the sum of their interior angles will be.





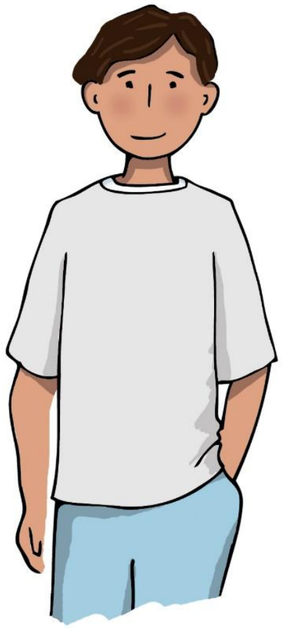


Explore

In relation to what we have learnt, who is right?

180 x n – 360

(n-2) x 180



If I draw a triangle from the centre to each side, it's 180 multiplied by the number of sides, then subtract 360 degrees in the centre.

There will be 2 less triangles than the number of sides, so multiply that by 180.