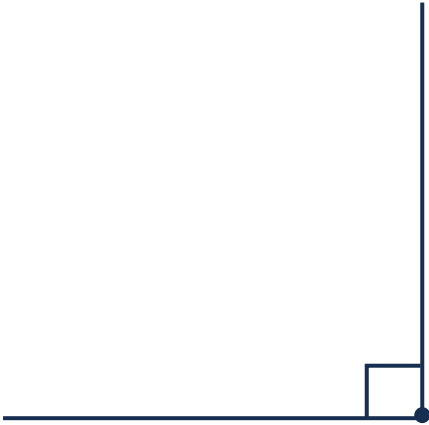


Calculating angles

Question 1

Label these angles in degrees.

a


 °

b


 °

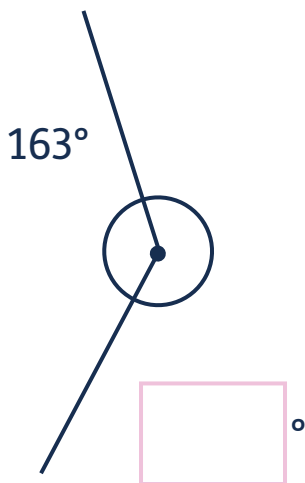
c


 °

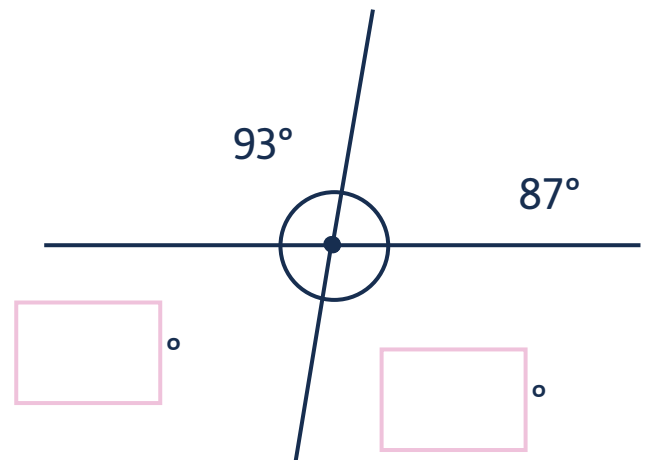
Question 2

Can you find the missing angles?

a

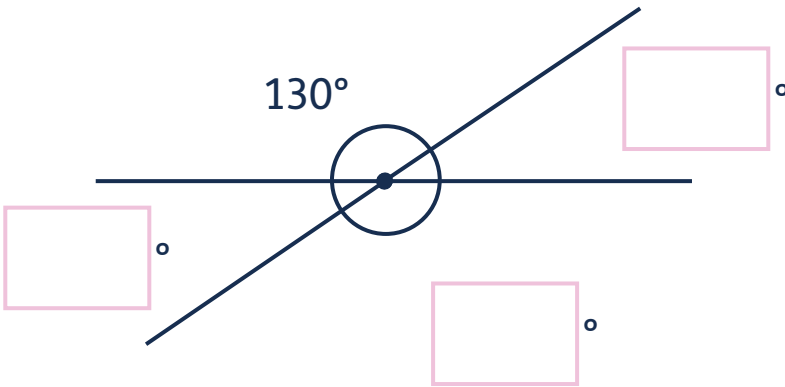


b

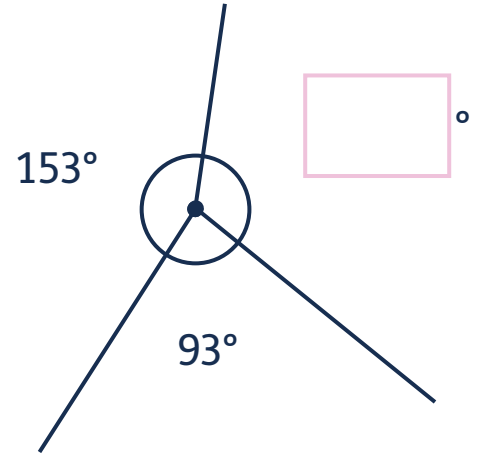


Calculating angles

c



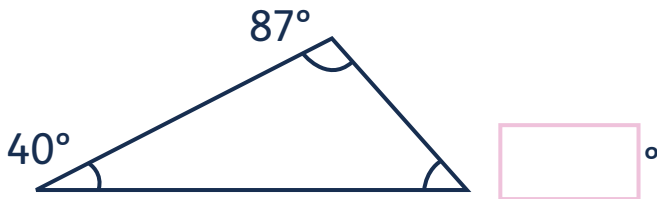
d



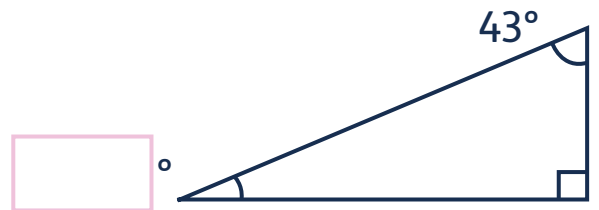
Question 3

Find the missing angles in these triangles.
The triangles are not drawn to scale.

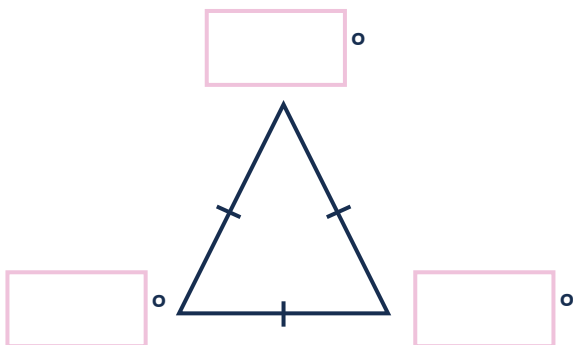
a



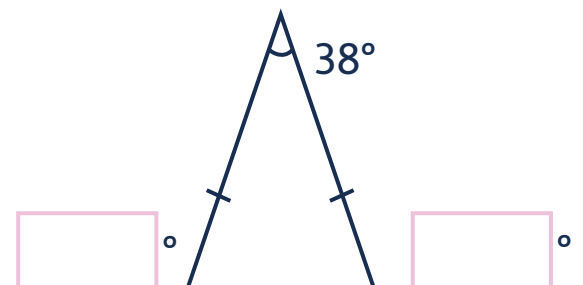
b



c



d

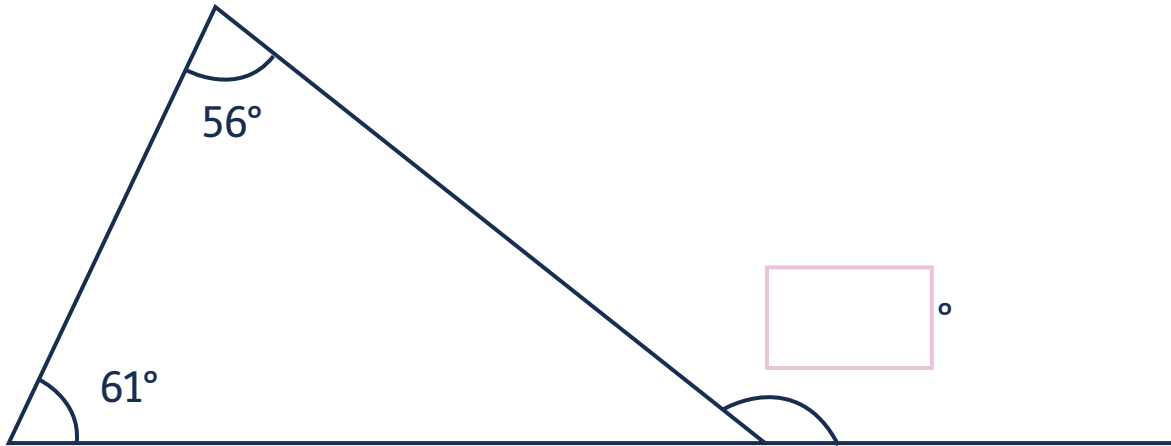


Calculating angles

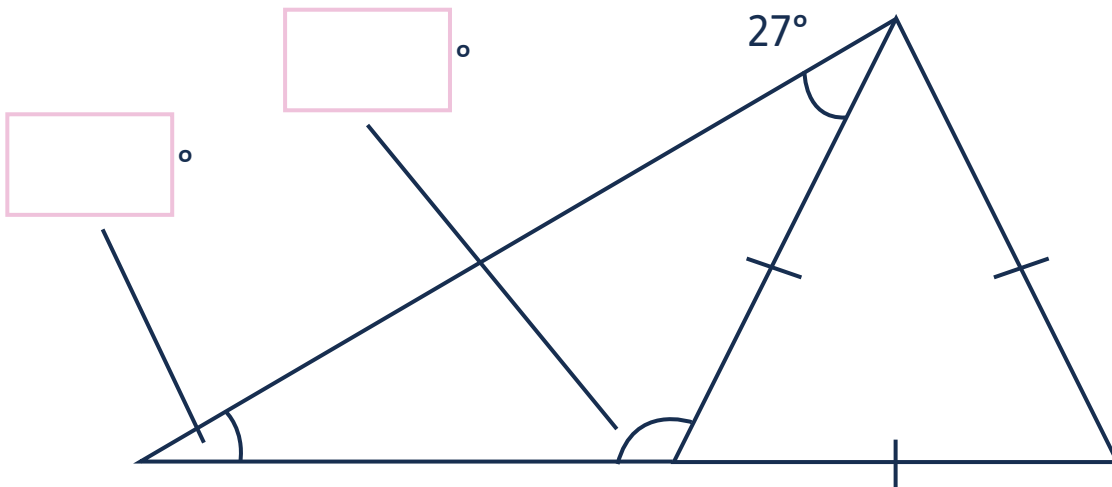
Question 4

Can you find the missing angles? Shapes have not been drawn to scale.

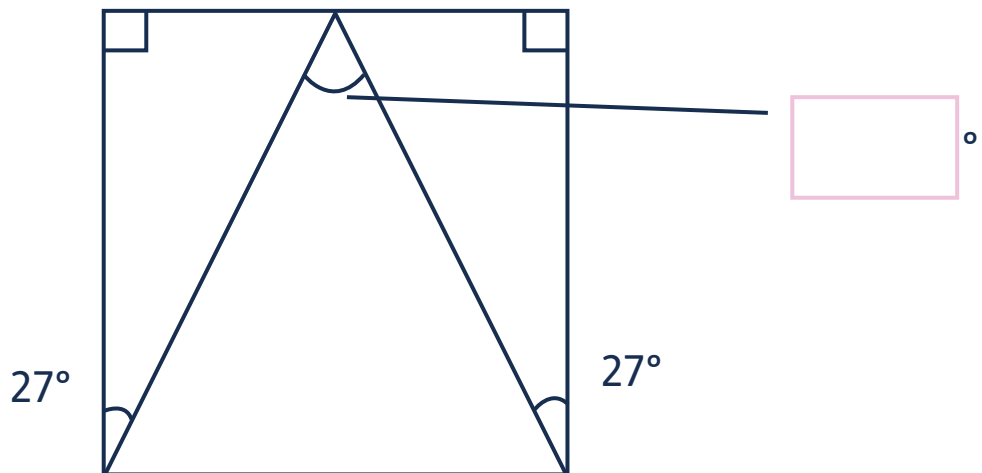
a



b



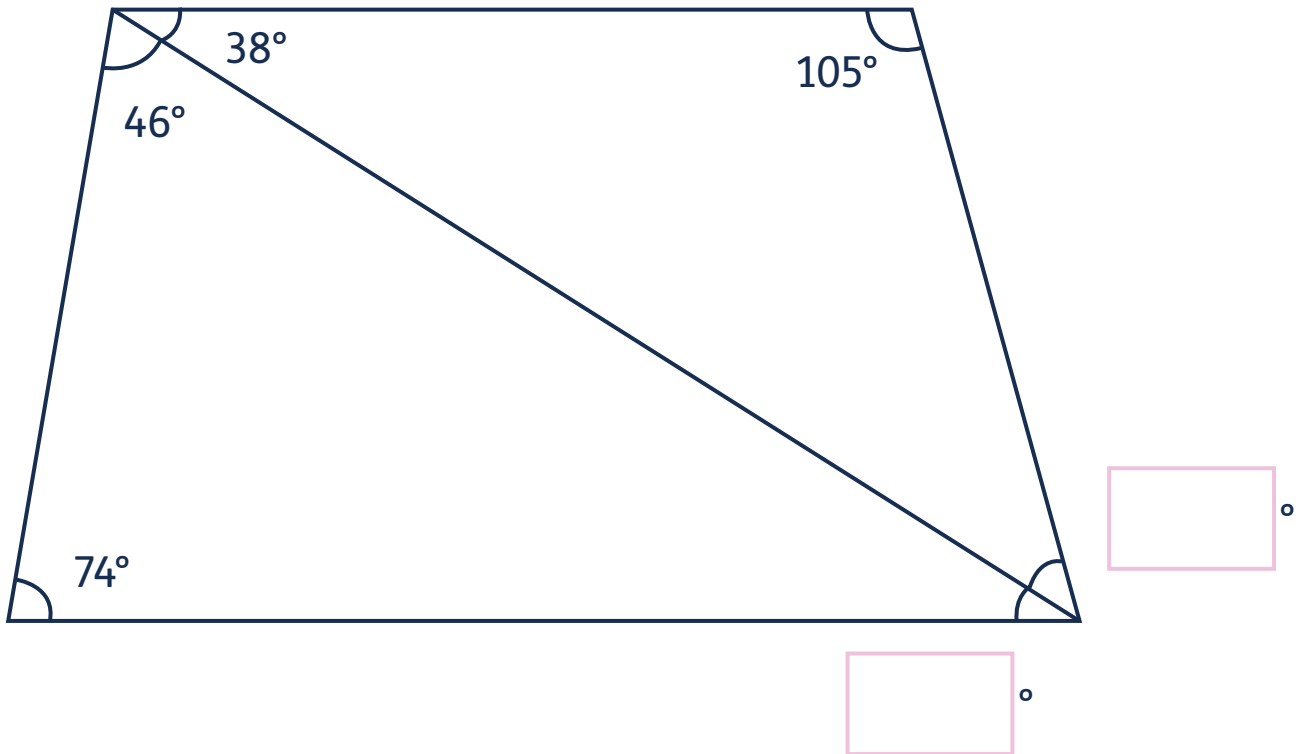
c



Calculating angles

Question 5

This trapezium is split into two triangles. Shapes are not drawn to scale.



- Can you find the missing angles?
- What are the measurements of the four angles in the trapezium?

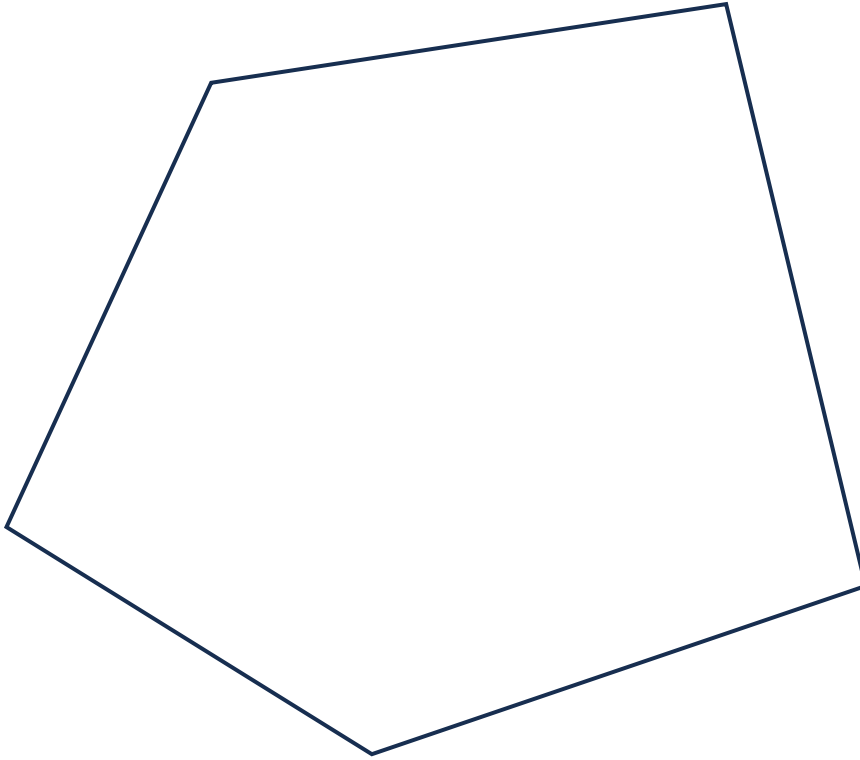
- What is the sum of the interior angles in the trapezium?



Calculating angles

Question 6

- a Can you split this pentagon into three triangles?



- b What is the sum of the angles in all three triangles?

- c What is the sum of the interior angles in the pentagon?



Calculating angles

Question 7

a Based on what you know about polygons, can you fill in this table?

Shape	Number sides	Number of triangles	$180^\circ \times$ Number of triangles	Sum of internal angles in shape
Triangle	3	1	180°	180°
Quadrilateral	4	2		
Pentagon				
Hexagon				
Octagon				

b If a polygon had 20 sides, how many triangles would you be able to make?

c How does the number of triangles change with the polygon?

d How does the sum of interior angles change with the polygon?

