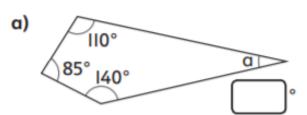
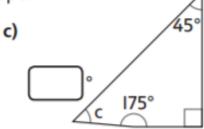
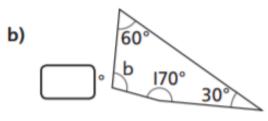
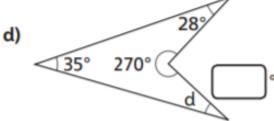
Angles in polygons 2

Calculate the missing angle of each shape.



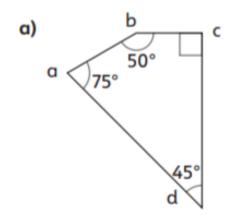


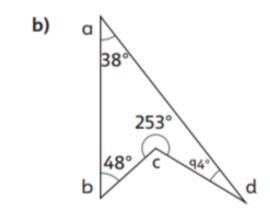




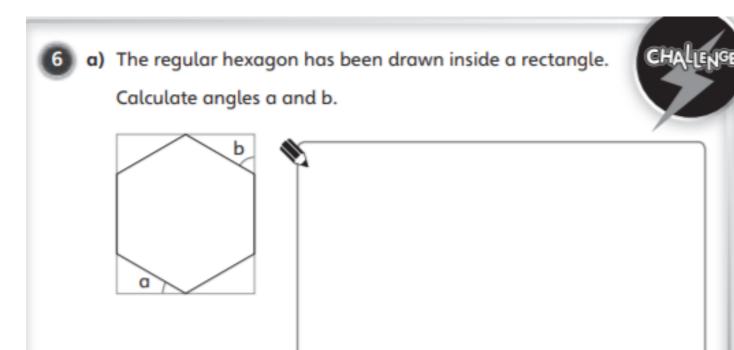


In each shape one angle has been labelled incorrectly. Identify this angle and calculate its correct value.

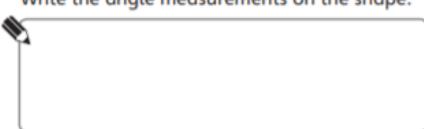


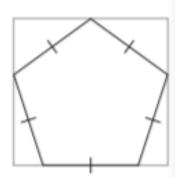


3	Draw lines to split each shape into triangles. Write the angle total for each shape.					
	a) c) c)					
	angle total = angle total = angle total =					
•						
4	Emma says, 'I split this shape into four triangles. There are I80° in each triangle and I80 \times 4 = 720°, so this quadrilateral must have internal angles that add up to 720°.'					
	Can you explain Emma's mistake?					
5	Calculate the interior angles of a regular decagon.					
	angle total = each interior angle = 25					



b) How many angles can you calculate in this diagram of a pentagon drawn inside a rectangle? Write the angle measurements on the shape.





Reflect

Create a missing angle problem involving a quadrilateral. The missing angle should be 40°.

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