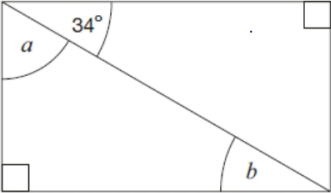


Objective: Find unknown angles in triangles, quadrilaterals and regular polygons

Year 6 Task:

Here is a rectangle.



Not to scale

Calculate the size of angles *a* and *b*.

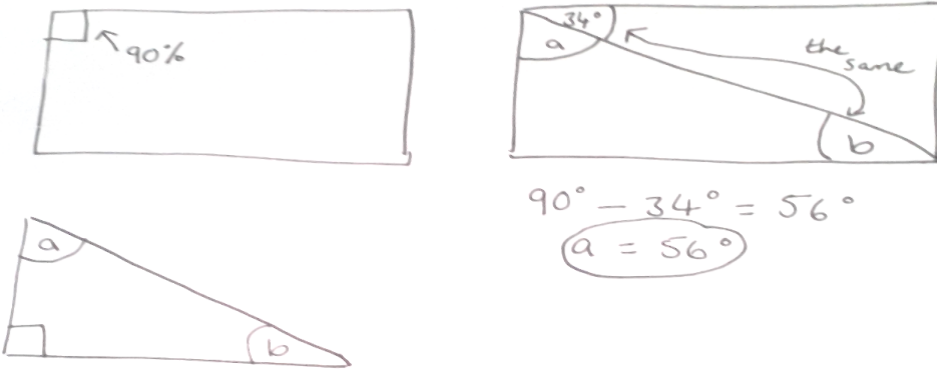
Do **not** measure the angles.

a = °

b = °

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Worked example

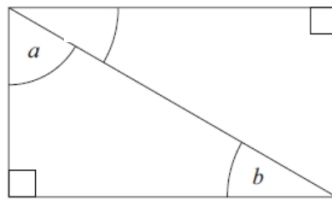


$90^\circ - 34^\circ = 56^\circ$
 $a = 56^\circ$

Angles in a triangle = 180°
 $a + b = 90^\circ$
 $56^\circ + \text{---} = 90^\circ$ $b = 34^\circ$

Variation

Here is a rectangle.



Not to scale

Calculate the size of angles a and b .

Do **not** measure the angles.

$$a = \boxed{}^\circ$$

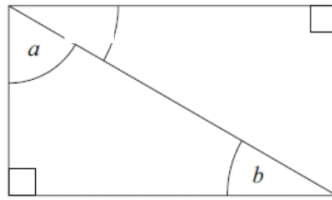
$$b = \boxed{}^\circ$$

What if the angle next to angle a measured 38 degrees?

Show your workings here:

Answer: $a = 52$ degrees, $b = 38$ degrees

Here is a rectangle.



Not to
scale

Calculate the size of angles **a** and **b**.

Do **not** measure the angles.

$$a = \boxed{}^\circ$$

$$b = \boxed{}^\circ$$

What if the angle next to angle **a** measured 43 degrees?

Show your workings here:

Answer: a = 47 degrees, b = 43 degrees