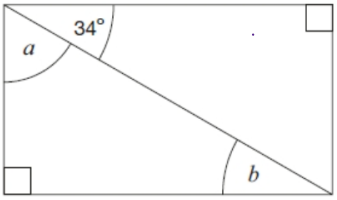
Objective: Find unknown angles in triangles, quadrilaterals and regular polygons

Year 6 Task:

Here is a rectangle.



Not to scale

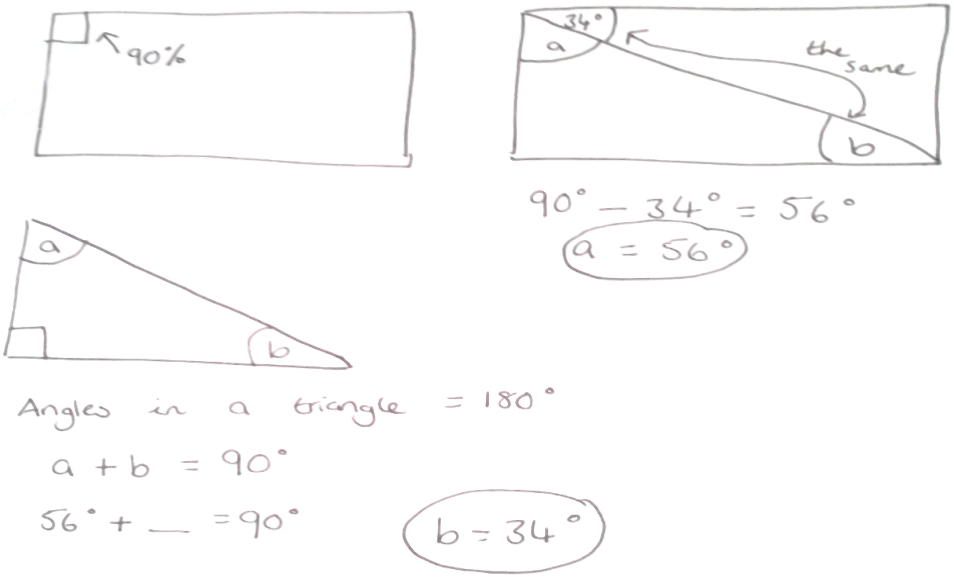
Calculate the size of angles ***a*** and ***b***.

Do **not** measure the angles.

a = ____ °

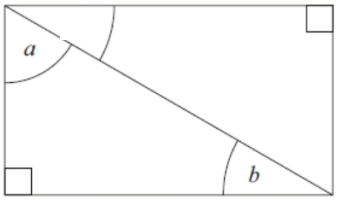
b = ____ °

Worked example



Variation

Here is a rectangle.



Not to scale

Calculate the size of angles a and b.

Do **not** measure the angles.

$a =$ ____ °

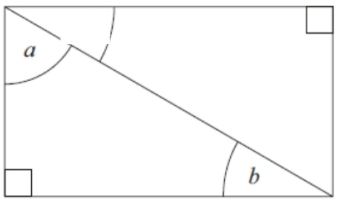
$b =$ ____ °

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.

$a =$ ____ °

$b =$ ____ °

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

Show your workings here:

Answer: a = 47 degrees, b = 43 degrees