

Mathematics

# Angles

## Downloadable Resource – Partitioning angles.

Mr. Thomas

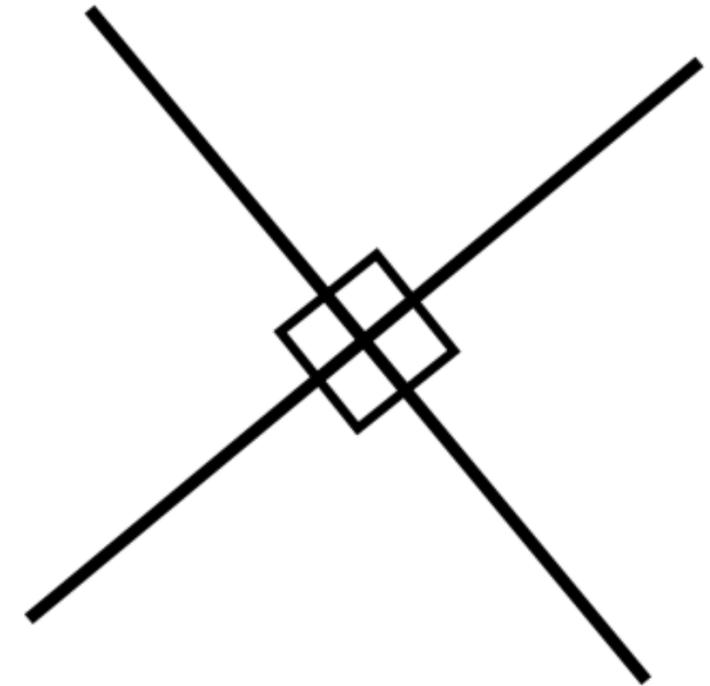


# Try this

- A Find all the **factors** of 360
- B Use the information below to sketch similar diagrams for a selection of the factor pairs.



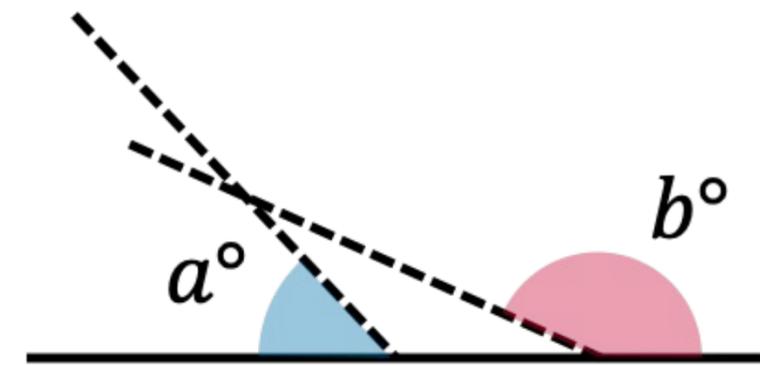
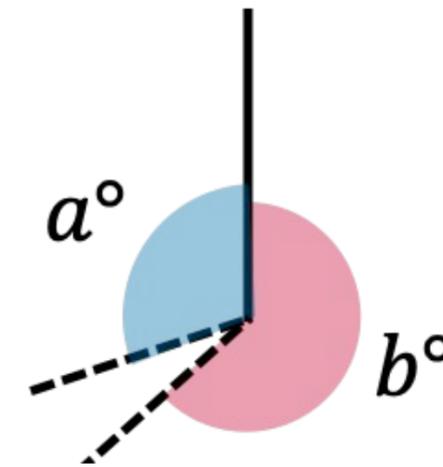
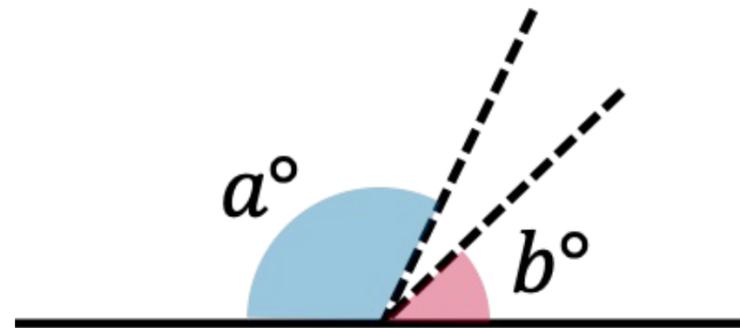
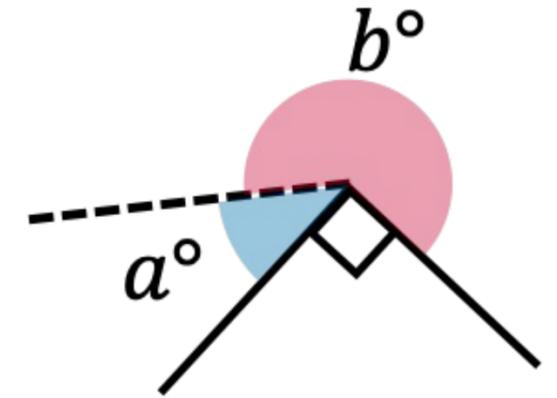
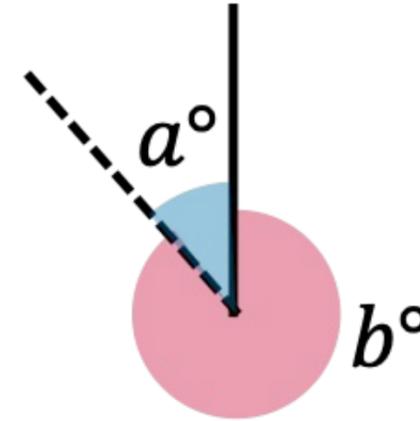
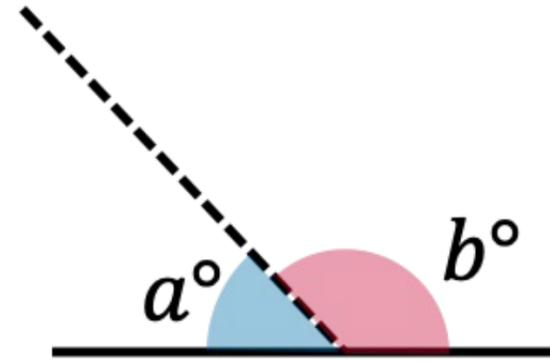
I can visualise the fact that 90 and 4 are factors of 360 using this drawing



# Connect

What equations can we form about the given angles here?

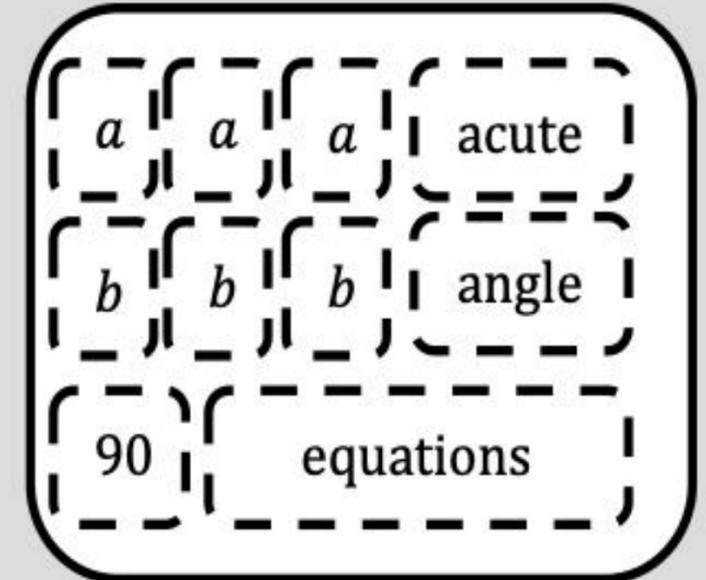
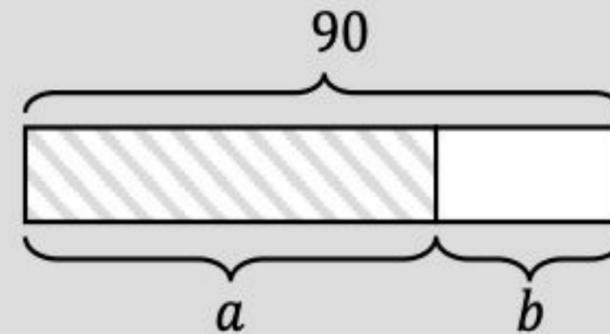
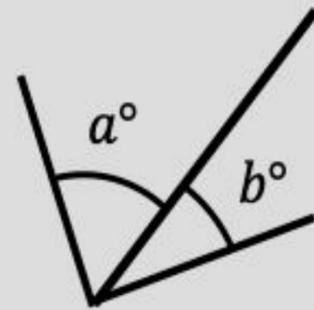
How about some inequalities for the latter questions?



# Independent Task

Fill in the blanks for the following exercise. You may want to go back in the video for some help.

## Concept Corner



If a known \_\_\_\_\_ is split into different parts we can form \_\_\_\_\_. For example, if a  $90^\circ$  angle is split into two \_\_\_\_\_ angles of size  $a^\circ$  and  $b^\circ$  we can say that:

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \text{or} \quad 90 - \underline{\quad} = \underline{\quad} \quad \text{or} \quad 90 - \underline{\quad} = \underline{\quad}$$



# Explore

Can you form two equations, using two different angle facts, to solve  $a$ ?

