

Mathematics

Angles

Downloadable Resource – Partitioning angles.

Mr. Thomas

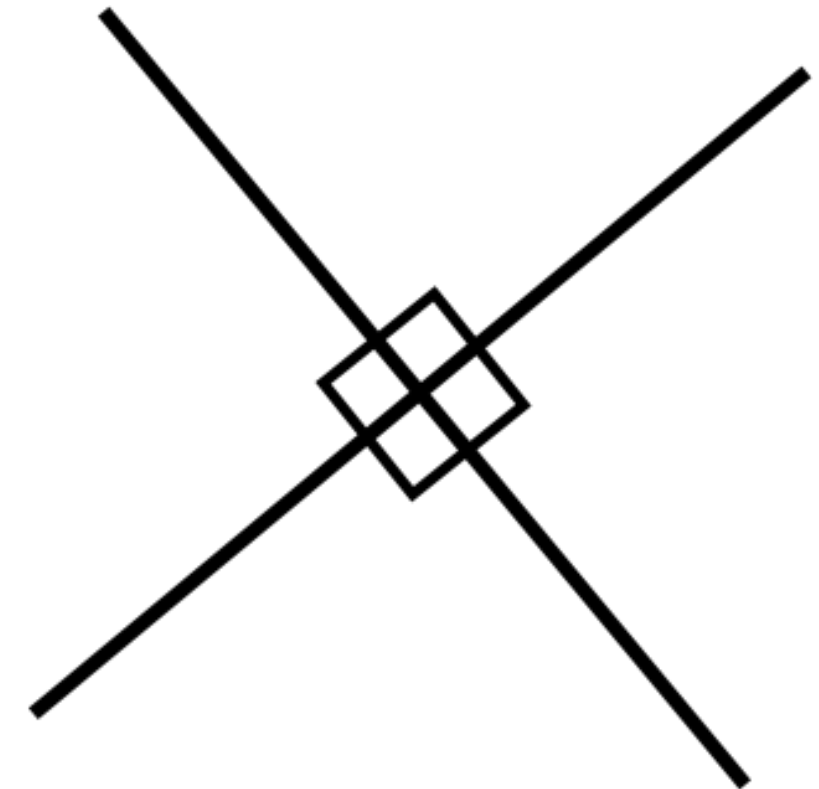


Try this

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

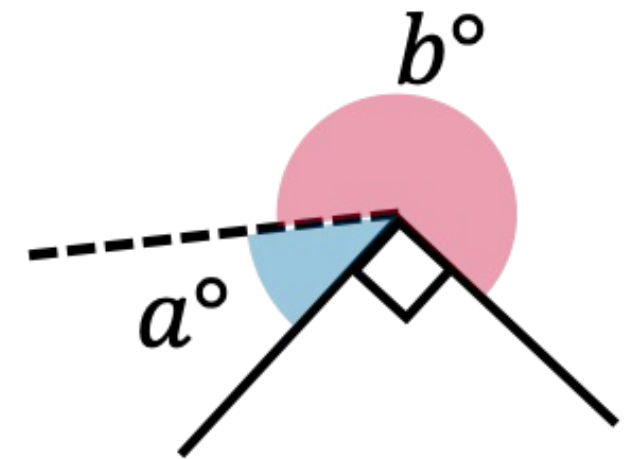
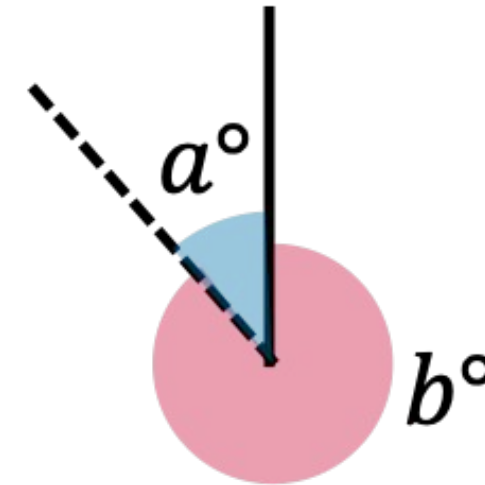
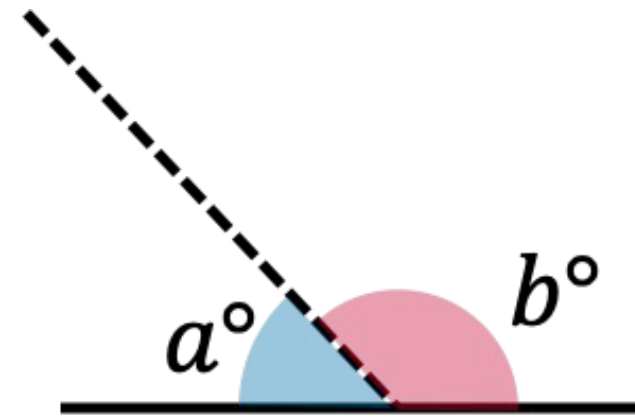


I can visualise the fact that 90 and 4 are factors of 360 using this drawing

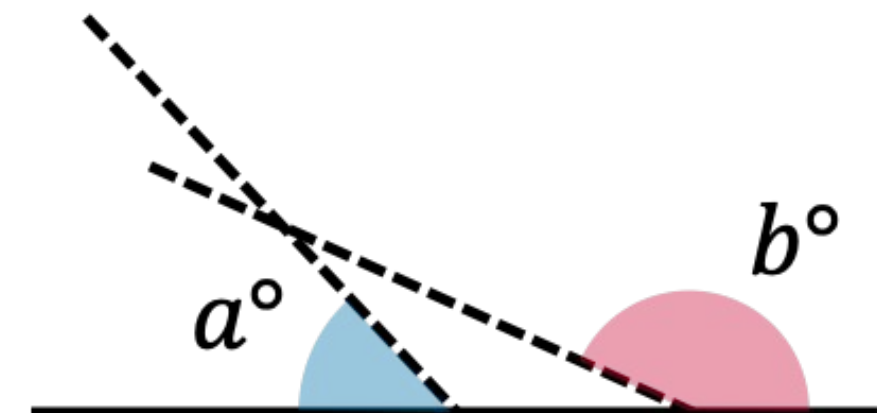
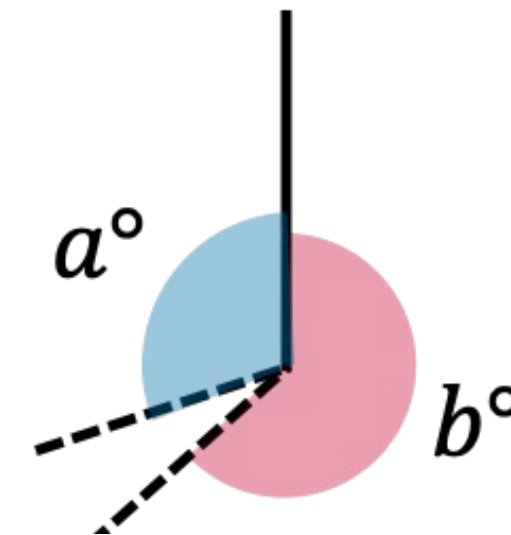
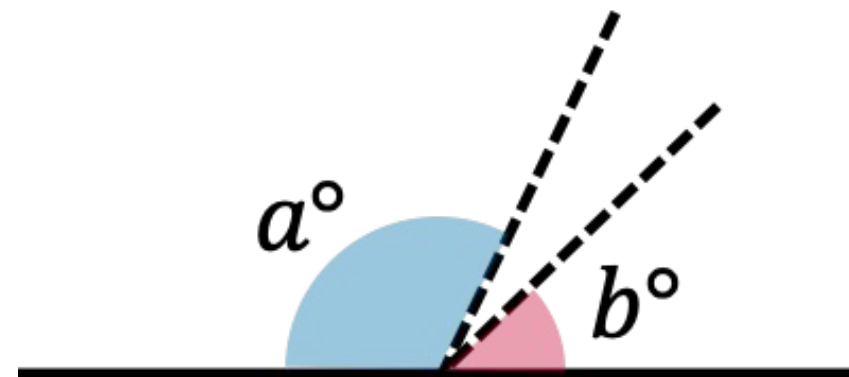


Connect

What equations
can we form about
the given angles
here?



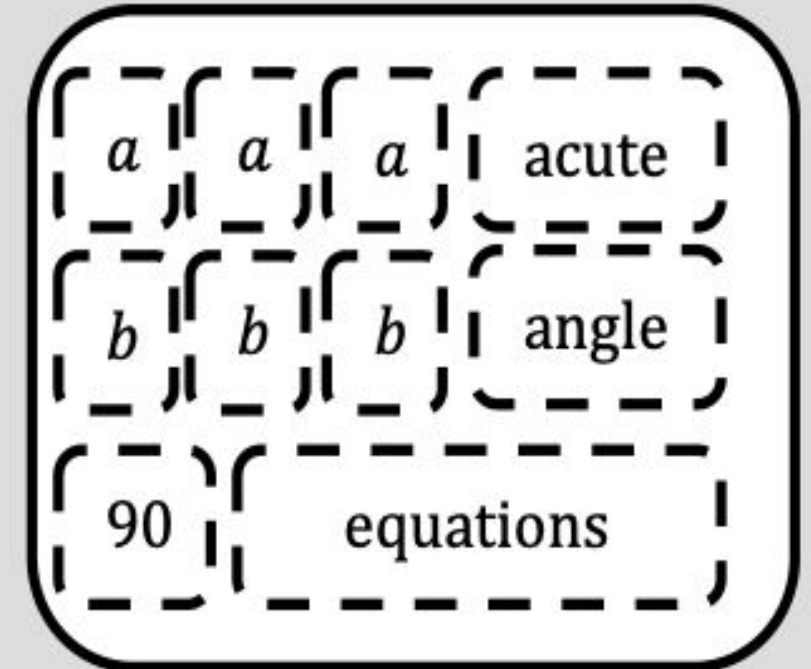
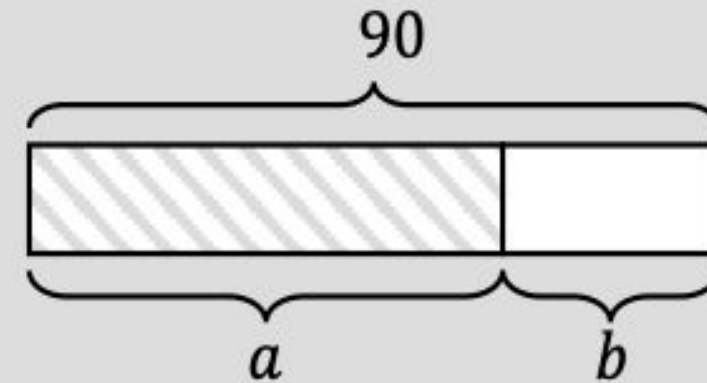
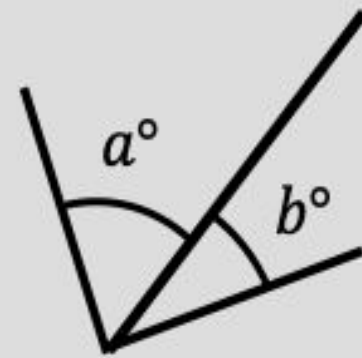
How about some
inequalities for the
latter questions?



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° angle is split into two _____ angles of size a° and b° we can say that:

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



Explore

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

