

Congruence & similarity



SSS

three sides

all three sides match



SAS

two sides + the angle
between

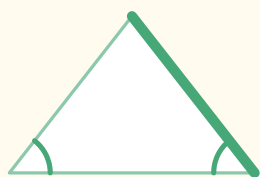
the angle is BETWEEN the
sides



ASA

two angles + the side
between

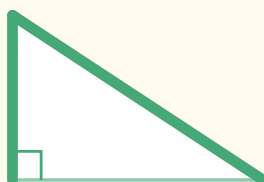
the side is BETWEEN the
angles



AAS

two angles + a side not
between

any side works once two
angles are set



HL

right angle · hypotenuse ·
a leg

right triangles only



AA — similar

two angles

same shape, not the same
size

SSA is missing on purpose — two different triangles can share it. AA proves triangles **SIMILAR** (same shape); the five with a side prove them **CONGRUENT** (same shape and same size).