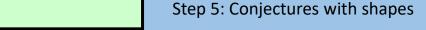
Year 9 Mathematics Learning Journey: Unit 10 - Deduction

Step 6 (H): Constructions and Reasoning

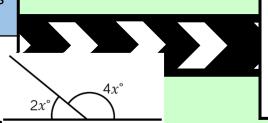
Construct the angle bisector of any angle. Join up the arc lines with two straight lines. What shape is ABCD? Will this always work?



Is the following conjecture true? "The number of sides that a regular shapes has is the same as the number of lines of symmetry it has".

Step 3: Angle problems with algebra

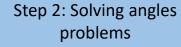
Form and solve an equation to find the value of x.



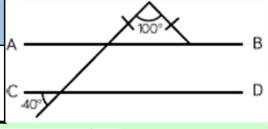
Step 4: Conjectures with angles

Is the following statement always, sometimes or never true?

"The sum of two obtuse angles is a reflex angle"



Show that lines AB and CD are parallel giving a reason for each step.



Step 1 (R): Angles in parallel lines

What do co-interior angles sum to?













COLLEGE