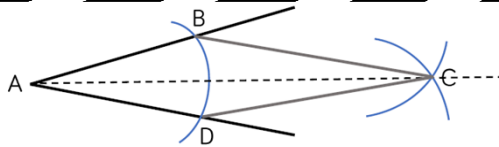# Year 9 Mathematics Learning Journey: Unit 14 – Deduction

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?

Step 5: Conjectures with shapes

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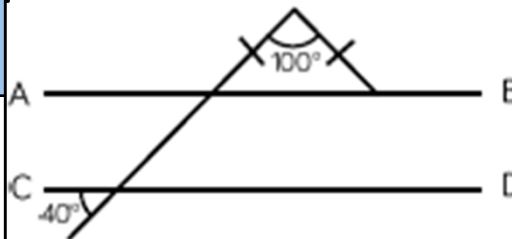
Form and solve an equation to find the value of x.

Step 4: Conjectures with angles

Is the following statement always, sometimes or never true?
"The sum of two obtuse angles is a reflex angle"

Step 2: Solving angles problems

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?

Achievement   resilience

Community   PERSEVERANCE   Pride

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