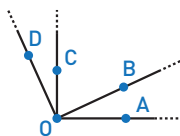


**YOU & MATHS** **Deducing angle measures** Knowing that  $\widehat{AOC}$  and  $\widehat{BOD}$  are right angles, as shown in the figure below, fill in the table and provide the missing reasons in order to prove that  $\widehat{AOB} \cong \widehat{COD}$ .

Statement	Reasons
$\square = \widehat{AOC} - \widehat{BOC}$	given
$\widehat{AOB} = \square - \square$	
$\widehat{COD} = \square - \square$	



Statements	Reasons
$\widehat{AOB} = \widehat{AOC} - \widehat{BOC}$	given
$\widehat{AOB} \cong \widehat{BOD} - \widehat{BOC}$	because $\widehat{AOC}$ and $\widehat{BOD}$ have the same measure
$\widehat{COD} = \widehat{BOD} - \widehat{BOC}$	given