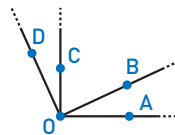**YOU & MATHS** **Deducing angle measures** Knowing that $A\widehat{O}C$ and $B\widehat{O}D$ are right angles, as shown in the figure below, fill in the table and provide the missing reasons in order to prove that $A\widehat{O}B \cong C\widehat{O}D$.

Statement	Reasons
_____ $= A\widehat{O}C - B\widehat{O}C$	given
$A\widehat{O}B = $ ____ $-$ ____	
$C\widehat{O}D = $ ____ $-$ ____	

Statement	Reasons
$A\widehat{O}B = A\widehat{O}C - B\widehat{O}C$	given
$A\widehat{O}B \cong B\widehat{O}D - B\widehat{O}C$	because $A\widehat{O}C$ and $B\widehat{O}D$ have the same measure
$C\widehat{O}D = B\widehat{O}D - B\widehat{O}C$	given