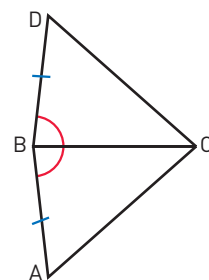**YOU & MATHS** **A guided prooof** Knowing that $AB \cong DB$ and that $A\widehat{B}C \cong D\widehat{B}C$, as shown in the figure, provide the missing reasons in the proof to show that $AC \cong DC$.

Statements	Reasons
$AB \cong DB$	given
$A\widehat{B}C \cong D\widehat{B}C$	
$BC \cong BC$	
$ABC \cong DBC$	
$AC \cong DC$	

Statements	Reasons
$AB \cong DB$	given
$A\widehat{B}C \cong D\widehat{B}C$	given
$BC \cong BC$	same segment
$ABC \cong DBC$	SAS criterion
$AC \cong DC$	corresponding sides of congruent triangles