

DIAGRAMS	STEPS	WHAT THIS DOES (justification)
	1. Start with $\overline{AB}$ .	
	2. Construct circle $A$ with a radius greater than half the distance from $A$ to $B$ .	
	3. Construct circle $B$ with the same radius as circle $A$ .	
	4. Label points $C$ and $D$ where circles $A$ and $B$ intersect.	
	5. Construct $\overleftrightarrow{CD}$ , the perpendicular bisector of $\overline{AB}$ . Label the point where $\overleftrightarrow{CD}$ intersects $\overline{AB}$ with the letter $M$ .	