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Construct Perpendicular Bisector

1. Place the compass on point $A$. Set the compass greater than half the length of $A B$. Draw an arc.
2. Without changing the compass width, repeat the process from point $B$. The two arcs should intersect. Label these points $S$ and T.
3. Using a straight edge, draw a line between points $S$ and $T$.
4. Complete the Conditional Statement.


If a point is on the perpendicular bisector of a segment, then $\qquad$


If a point is on the bisector of an angle, then

## Construct a Median

10. Construct the midpoint of IK (see steps 1-4). Label the midpoint of $\overline{I K}$ point $M$.
11. Using a straight edge, draw a line segment connecting $D$ and $M$. This is a Median.
12. Describe the properties of $a$ median of a triangle.


Properties of Median: $\qquad$


Properties of Altitude: $\qquad$


Conjecture $\qquad$

