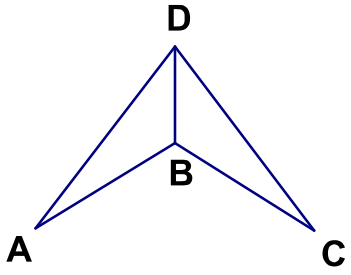
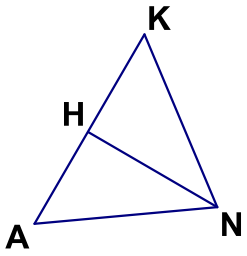
Name _____ Date _____
Mr. Schlansky Geometry

Triangle Proofs with CPCTC

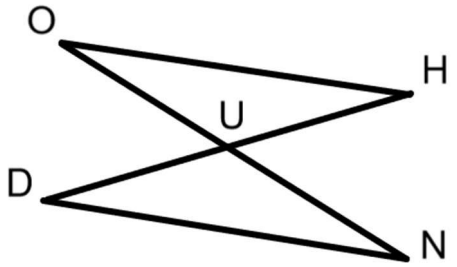
1. Given: $\overline{BD}$ bisects $\angle$ ADC
$\overline{AD} \cong \overline{DC}$
Prove: $\overline{AB} \cong \overline{BC}$



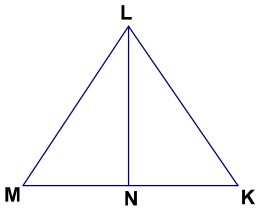
2. Given: $\overline{HN} \perp \overline{KA}$, $\overline{KN} \cong \overline{AN}$
Prove: $\angle HAN \cong \angle HKN$



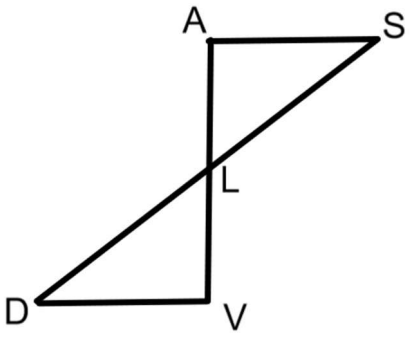
3. Given: $\overline{OH} || \overline{DN}$, $\overline{OH} \cong \overline{DN}$
Prove: $\overline{OU} \cong \overline{UN}$



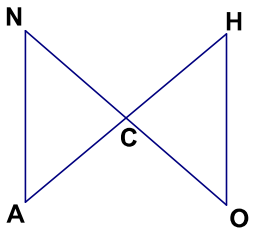
4. Given: $\overline{LN}$ is the perpendicular bisector of $\overline{MK}$
Prove: $\overline{NM} \cong \overline{NK}$



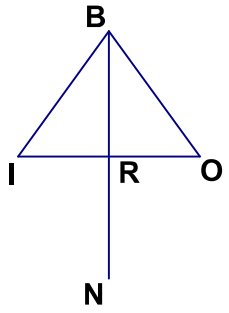
5. Given: $\overline{SA} \perp \overline{AV}$, $\overline{DV} \perp \overline{VA}$, L is the midpoint of $\overline{DS}$
Prove: $\angle$ ASL $\cong$ $\angle$ VDL



6. Given: $\overline{NO}$ and $\overline{HA}$ bisect each other
Prove: $\overline{NA} \cong \overline{HO}$



7. Given: $\overline{NB}$ bisects $\angle$IBO, $\overline{BR} \perp \overline{IO}$
Prove: $\angle$BIO $\cong$ $\angle$BOI



8. Given: $\overline{QR}$ is the perpendicular bisector of $\overline{NP}$
Prove: $\angle NQR \cong \angle PQR$