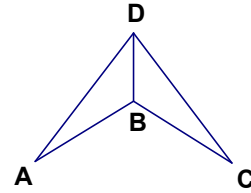


Name _____
Mr. Schlansky

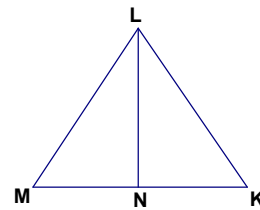
Date _____
Geometry

Triangle Proofs with CPCTC

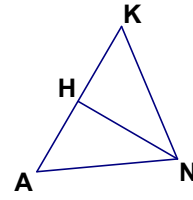
1. Given: $\overline{BD}$ bisects $\angle ADC$
 $\overline{AD} \cong \overline{DC}$
Prove: $\overline{AB} \cong \overline{BC}$



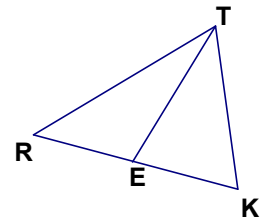
2. Given: $\overline{LN}$ bisects $\angle KLM$
 $\angle LKM \cong \angle LMK$
Prove: $\overline{NM} \cong \overline{NK}$



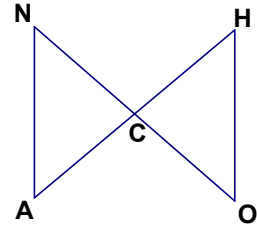
3. Given: $\overline{HN} \perp \overline{KA}$, $\overline{KN} \cong \overline{AN}$
Prove: $\angle HAN \cong \angle HKN$



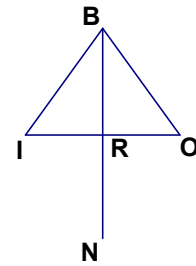
4. Given: $\overline{TE}$ is a median, $\overline{TR} \cong \overline{TK}$
Prove: $\angle TKR \cong \angle TRK$



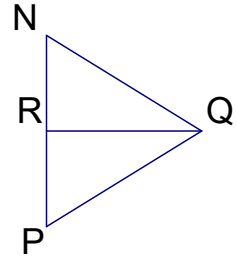
5. Given: $\overline{NO}$ and $\overline{HA}$ bisect each other
Prove: $\overline{NA} \cong \overline{HO}$



6. Given: $\overline{NB}$ bisects $\angle IBO$, $\overline{BR}$ is an altitude
Prove: $\angle BIO \cong \angle BOI$



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



8. Given: $\overline{IE} \parallel \overline{RN}$, $\overline{TR} \perp \overline{RN}$, $\overline{HS} \perp \overline{IE}$, $\overline{EH} \cong \overline{AT}$
 Prove: $\overline{SH} \cong \overline{RT}$

