

Name Schlansky
Mr. Schlansky

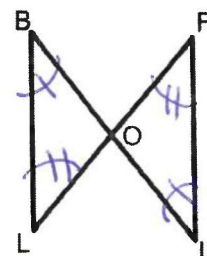
Date _____
Geometry



Mini Proofs Practice

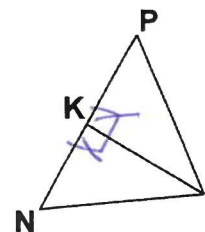
1. Given: $\overline{BL} \parallel \overline{FU}$

Statements	Reasons
① $\overline{BL} \parallel \overline{FU}$	① given
② $\angle B \cong \angle U$ $\angle L \cong \angle F$	② parallel lines cut by a transversal create congruent alternate interior angles



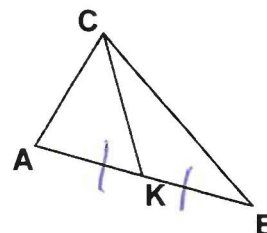
2. Given: $\overline{IK} \perp \overline{PN}$

Statements	Reasons
① $\overline{IK} \perp \overline{PN}$	① given
② $\angle PRI \cong \angle NKI$	② perpendicular lines form congruent right angles



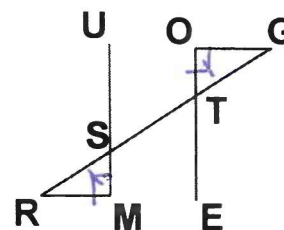
3. $\overline{CK}$ bisects $\overline{AE}$

Statements	Reasons
① $\overline{CK}$ bisects $\overline{AE}$	① given
② $\overline{AK} \cong \overline{KE}$	② a line bisector creates two congruent segments.



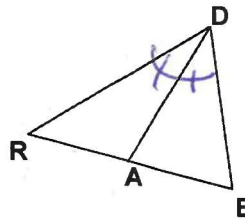
4. Given: $\overline{MR} \perp \overline{MU}$, $\overline{EO} \perp \overline{OG}$

Statements	Reasons
① $\overline{MR} \perp \overline{MU}$, $\overline{EO} \perp \overline{OG}$	① given
② $\angle RMS \cong \angle GOT$	② perpendicular lines form congruent right angles



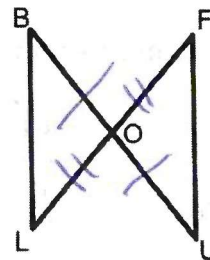
5. $\overline{DA}$ bisects $\angle RDE$

Statements	Reasons
① $\overline{DA}$ bisects $\angle RDE$	① given
② $\angle RDA \cong \angle EDA$	② An angle bisector creates two congruent angles.



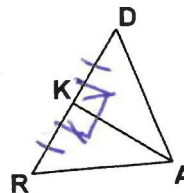
6. Given: $\overline{BL}$ and $\overline{FU}$ bisect each other

Statement	Reasons
① $\overline{BL}$ and $\overline{FU}$ bisect each other	① given
② $\overline{BO} \cong \overline{OL}$ $\overline{FO} \cong \overline{OU}$	② A line bisector creates two congruent segments



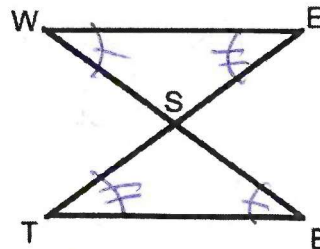
7. Given: $\overline{AK}$ is the perpendicular bisector of $\overline{DR}$

Statements	Reasons
① $\overline{AK}$ is the perpendicular bisector of $\overline{DR}$	① given
② $\angle DKA \cong \angle RKA$	② perpendicular lines form congruent right angles
③ $\overline{DK} \cong \overline{KR}$	③ A line bisector creates two congruent segments



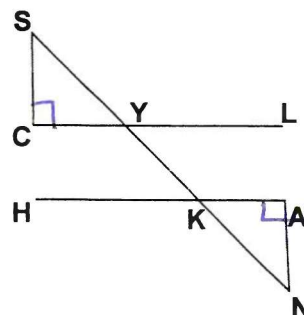
8. Given: $\overline{WE} \parallel \overline{TB}$

Statements	Reasons
① $\overline{WE} \parallel \overline{TB}$	① given
② $\angle EWS \cong \angle TBS$ $\angle WES \cong \angle STB$	② Parallel lines cut by a transversal create congruent alternate interior angles



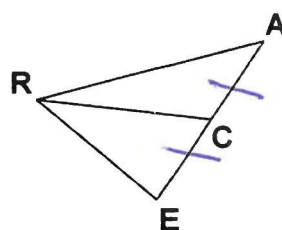
9. Given: $\overline{SC} \perp \overline{CL}$, $\overline{NA} \perp \overline{AH}$

Statements	Reasons
① $\overline{SC} \perp \overline{CL}$, $\overline{NA} \perp \overline{AH}$	① Given
② $\angle SCY \cong \angle NAK$	② perpendicular lines form congruent right angles



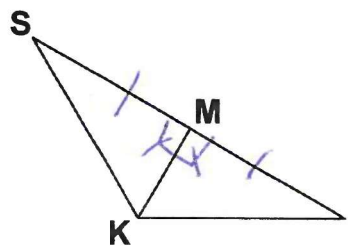
10. Given: C is the midpoint of $\overline{AE}$

Statements	Reasons
① C is the midpoint of $\overline{AE}$	① Given
② $\overline{AC} \cong \overline{CE}$	② A midpoint creates two congruent segments



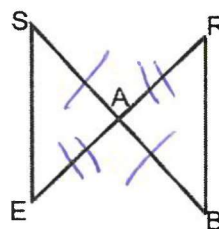
11. Given: $\overline{KM}$ is the perpendicular bisector of $\overline{SI}$

Statements	Reasons
① $\overline{KM}$ is the perpendicular bisector of $\overline{SI}$	① Given
② $\overline{SM} \cong \overline{MI}$	② A line bisector creates two congruent segments
③ $\angle SMK \cong \angle IMK$	③ perpendicular lines form congruent right angles



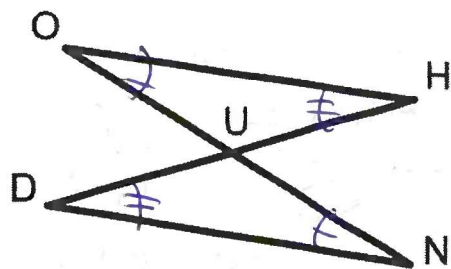
12. Given: $\overline{SB}$ and $\overline{RE}$ bisect each other

Statements	Reasons
① $\overline{SB}$ and $\overline{RE}$ bisect each other	① Given
② $\overline{SA} \cong \overline{AB}$ $\overline{EA} \cong \overline{AR}$	② A line bisector creates two congruent segments



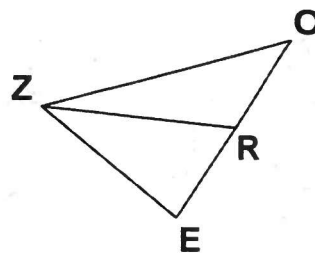
13. Given: $\overline{OH} \parallel \overline{DN}$

Statements	Reasons
① $\overline{OH} \parallel \overline{DN}$	① given
② $\angle O \cong \angle N$, $\angle D \cong \angle H$	② parallel lines cut by a transversal create congruent alternate interior angles



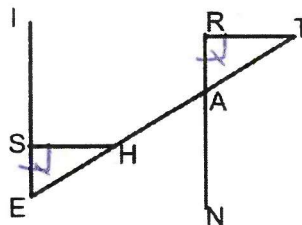
14. Given: R is the midpoint of $\overline{OE}$

Statements	Reasons
① R is the midpoint of $\overline{OE}$	① given
② $\overline{OR} \cong \overline{RE}$	② A midpoint creates two congruent segments



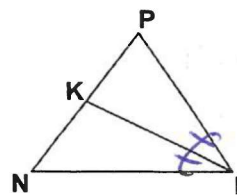
15. Given: $\overline{TR} \perp \overline{RA}$, $\overline{IE} \perp \overline{SH}$

Statements	Reasons
① $\overline{TR} \perp \overline{RA}$, $\overline{IE} \perp \overline{SH}$	① given
② $\angle TRA \cong \angle HSE$	② Perpendicular lines create congruent right angles



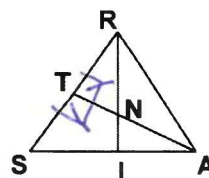
16. Given: $\overline{KI}$ bisects $\angle PIN$

Statements	Reasons
① $\overline{KI}$ bisects $\angle PIN$	① given
② $\angle PIK \cong \angle NIK$	② An angle bisector creates congruent angles



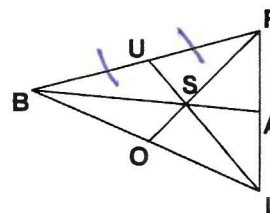
17. Given: $\overline{AT} \perp \overline{RS}$

Statements	Reasons
① $\overline{AT} \perp \overline{RS}$	① given
② $\angle ATR \cong \angle ATS$	② Perpendicular lines create congruent right angles



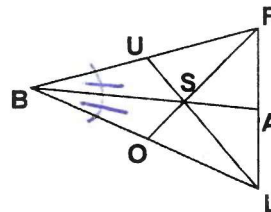
18. Given: U is the midpoint of $\overline{BF}$

Statements	Reasons
① U is the midpoint of $\overline{BF}$	① given
② $\overline{BU} \cong \overline{UF}$	② A midpoint creates two congruent segments



19. Given: $\overline{AB}$ bisects $\angle FBL$

Statements	Reasons
① $\overline{AB}$ bisects $\angle FBL$	① given
② $\angle FBA \cong \angle LBA$	② An angle bisector creates two congruent angles



20. Given: $\overline{AS} \perp \overline{OE}$

Statements	Reasons
① $\overline{AS} \perp \overline{OE}$	① given
② $\angle ASO \cong \angle ASE$	② Perpendicular lines form right congruent right angles.

