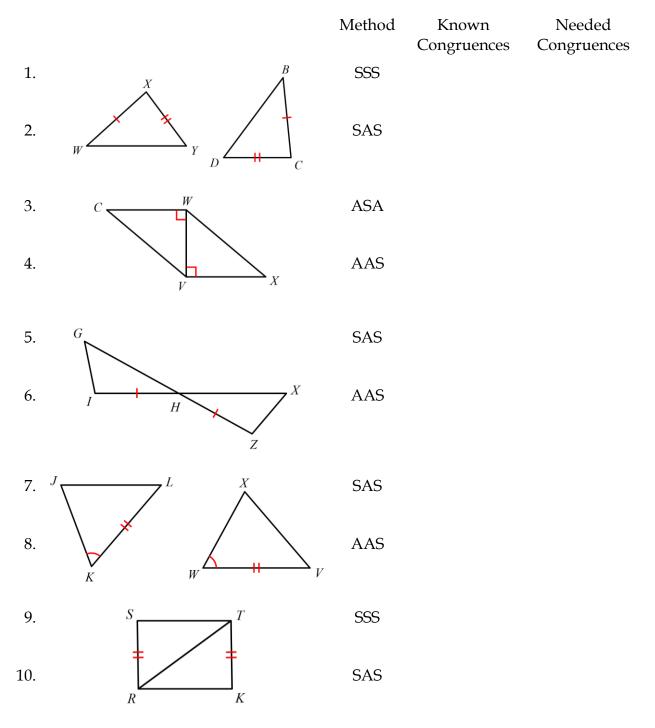
Name: \_\_\_\_

Past due on: \_\_\_\_\_ Period \_\_\_\_\_

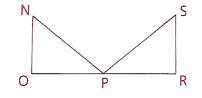
## 7.8.D2 ~ Congruent Triangle Proofs

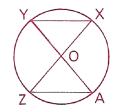
Study the congruent sides and angles shown by the tick marks and arc marks, then identify the additional information needed to support the specified method of proving that the indicated triangles are congruent.



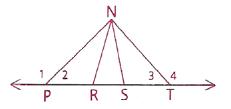
## PROOFS MUST BE DONE ON PROOF PAPER.

- 11. Given:  $\angle N$  is comp. to  $\angle NPO$  $\angle S$  is comp. to  $\angle SPR$  $\angle NPO \cong \angle SPR$  $\overline{NP} \cong \overline{SP}$ Prove:  $\triangle NOP \cong \triangle SRP$
- 12. Given: *O* is the midpoint of  $\overline{AY}$ *O* is the midpoint of  $\overline{ZX}$ Prove:  $\triangle ZOA \cong \triangle XOY$

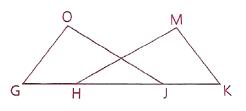




13. Given:  $\angle 1 \cong \angle 4$  $\overline{PR} \cong \overline{TS}$  $\overline{NP} \cong \overline{NT}$ Prove:  $\triangle NPR \cong \triangle NTS$ 



14. Given:  $\overline{GH} \cong \overline{KJ}$  $\overline{HM} \cong \overline{JO}$  $\overline{GO} \cong \overline{KM}$ Prove:  $\triangle GOJ \cong \triangle KMH$ 



15. Given:  $\angle R \cong \angle N$   $\overline{RP} \cong \overline{NT}$   $\overline{RT} \cong \overline{NP}$   $\overline{TS} \cong \overline{OP}$ Prove:  $\triangle NOT \cong \triangle RSP$ 

