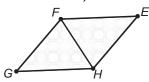
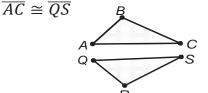
Name all postulates or theorems used to reach your conclusion. Mark each triangle.

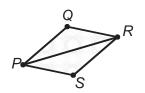
1. $\overline{FE} \cong \overline{GH}, \angle EFH \cong \angle GHF$



2. $\angle A \cong \angle Q$, $\angle B \cong \angle R$, and



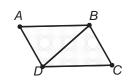
3. $\angle QPR \cong \angle SRP$ and $\angle QRP \cong \angle SPR$



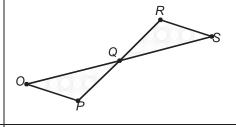
 $_{4}$, $\overline{HK} \cong \overline{JL}$ and $\overline{HJ} \cong \overline{KL}$



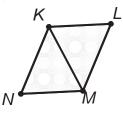
 $5. \overline{AD} \cong \overline{BC}$, $\angle ABD \cong \angle CDB$



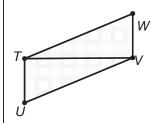
6. \overline{OS} bisects \overline{PR} , $\overline{OP} \parallel \overline{RS}$



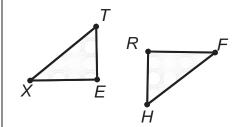
7. $\overline{KN} \parallel \overline{LM}$, $\overline{NM} \cong \overline{KL}$



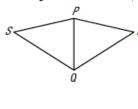
8. $\overline{VW} \perp \overline{TV}, \overline{TU} \perp \overline{TV}, \overline{TW} \cong \overline{UV}$



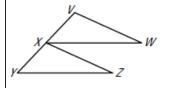
9. $\angle E$ and $\angle R$ are right angles, $\overline{TE} \cong \overline{HR}$, $\overline{EX} \cong \overline{RF}$



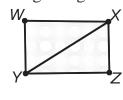
10. \overline{PQ} bisects $\angle SPT$, $\overline{SP} \cong \overline{TP}$



11. *X* is the midpt. of \overline{VY} ; $\overline{XW} \parallel \overline{YZ}$, $\angle YXZ \cong \angle XVW$



12. $\overline{WX} \parallel \overline{YZ}$, $\angle W$ and $\angle Z$ are right angles



- 1. Are there any orders of sides and angles that DON'T prove triangles are congruent?
- 2. Circle which methods below COULD be used to prove two triangles are congruent?
 - A. Prove all three corresponding angles are congruent.
 - B. Prove that two angles and their included side are congruent.
 - $\ensuremath{\text{C.}}$ Prove all three corresponding sides are congruent.
 - D. Prove two corresponding sides and one pair of corresponding angles are congruent.

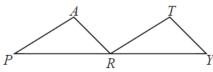
- If you are given two triangles, $\triangle LAX$ and $\triangle TVH$, where $\angle L \cong \angle T$ and $\overline{LA} \cong \overline{TV}$, what additional information would *not* be sufficient to prove $\Delta LAX \cong$ ΔTVH ?



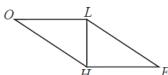
- B. $\overline{LX} \cong \overline{TH}$
- C. $\overline{AX} \cong \overline{VH}$
- D. $\angle X$ and $\angle H$ are right angles



- Which theorem or postulate can be used to prove $\Delta PAR \cong \Delta RTY$?
- A. ASA
- B. HL
- C. SSA
- D. SAS



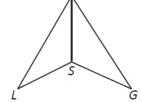
- 3) Given $\overline{HL} \perp \overline{OL}$ and $\overline{LH} \perp \overline{EH}$, and $\angle O \cong \angle E$. Which theorem or postulate can be used to prove $\Delta OHL \cong \Delta ELH$?
- A. SSA
- B. SAS
- C. ASA
- D. AAS



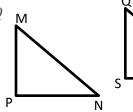
Given \overline{SE} bisects $\angle LEG$ and $\overline{LE} \cong \overline{EG}$, choose the correct congruence statement.

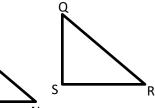
2) Given $\overline{PA} \parallel \overline{RT}$, $\overline{PA} \cong \overline{RT}$, R is the midpoint of \overline{PY} .

- A. $\triangle LES \cong \triangle ESG$
- B. $\triangle SLE \cong \triangle GSE$
- C. $\triangle SLE \cong \triangle ESG$
- D. $\triangle ELS \cong \triangle EGS$

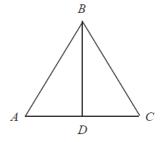


- 5) If you are given two triangles, $\triangle MNP$ and $\triangle QRS$, where $\overline{MN} \cong \overline{QR}$ and $\overline{NP} \cong \overline{RS}$, what additional information would be sufficient to prove $\triangle NPM \cong$ ΔRSQ ?
- A. $\angle R \cong \angle P$
- B. $\angle S$ and $\angle P$ are right angles
- C. $\overline{MN} \cong \overline{QS}$
- D. $\angle M \cong \angle Q$ M





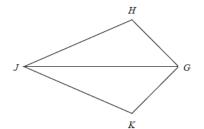
- 6) If $\triangle ABD$ and $\triangle CBD$ are right triangles and $\overline{AB} \cong \overline{BC}$, what theorem or postulate proves $\triangle ABD \cong \triangle CBD$?
- A. HL
- SAS B.
- C. SSS
- D. ASA



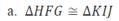
7) If $\overline{HG} \cong \overline{KG}$ and $\angle HGI \cong \angle KGI$, which congruence postulate or theorem would prove $\Delta GHJ \cong \Delta GKJ$?



- SSS B
- C. HL
- AAS D.



8) Choose the correct congruency statement given the triangles below.



- b. $\triangle GHF \cong \triangle KII$
- c. $\triangle GHF \cong \triangle KIJ$
- d. $\Delta FGH \cong \Delta KJI$

