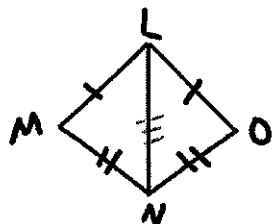


Name: key Date: \_\_\_\_\_

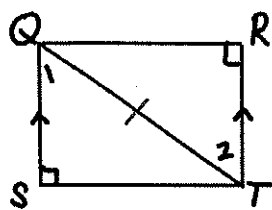
**Matching:** Use the choices listed at the bottom in the box for problems #1 – 4

Problem 1:



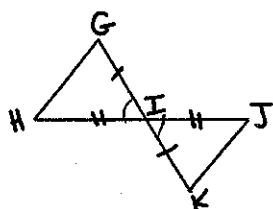
Statement	Reason
1. $\overline{LM} \cong \overline{LO}$	1. Given
2. $\overline{MN} \cong \overline{ON}$	2. Given
3. $\overline{LN} \cong \overline{LN}$	3. Reflexive Property
4. $\triangle LMN \cong \triangle LON$	4. SSS

Problem 2:



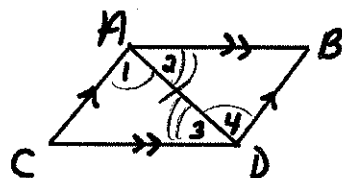
Statement	Reason
1. $\overline{QS} \parallel \overline{RT}$	1. Given
2. $\angle R \cong \angle S$	2. Given
3. $\angle 1 \cong \angle 2$	3. Alt. Interior $\angle$ s are $\cong$
4. $\overline{QT} \cong \overline{QT}$	4. Reflexive
5. $\triangle QST \cong \triangle TRQ$	5. AAS

Problem 3:



Statement	Reason
1. $\overline{GI} \cong \overline{KI}$	1. Given
2. $\overline{HI} \cong \overline{JI}$	2. Given
3. $\angle GIH \cong \angle KIJ$	3. Vertical $\angle$ s are $\cong$
4. $\triangle GIH \cong \triangle KIJ$	4. SAS

Problem 4:

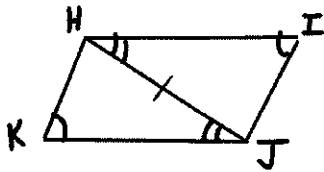


Statement	Reason
1. $\overline{AC} \parallel \overline{BD}, \overline{AB} \parallel \overline{CD}$	1. Given
2. $\angle 1 \cong \angle 4, \angle 2 \cong \angle 3$	2. Alt. Interior $\angle$ s are $\cong$
3. $\overline{AD} \cong \overline{AD}$	3. Reflexive
4. $\triangle ADC \cong \triangle DAB$	4. ASA

**Choices for problems #1 – 4 (some will be used more than once):**

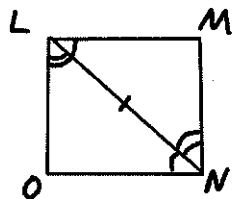
- AAS
- ASA
- Alternate Interior Angles are  $\cong$
- Given
- Reflexive Property
- SAS
- SSS
- Vertical Angles are  $\cong$

Problem 5:



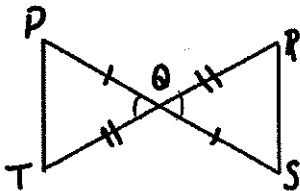
Statement	Reason
1. $\angle I \cong \angle K$	1. Given
2. $\angle IHJ \cong \angle KJH$	2. Given
3. $\overline{HJ} \cong \overline{HJ}$	3. Reflexive
4. $\triangle HJK \cong \triangle HJI$	4. AAS

Problem 6:



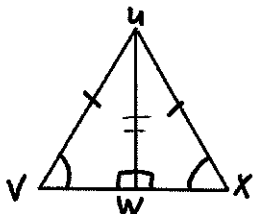
Statement	Reason
1. $\angle MLN \cong \angle ONL$	1. Given
2. $\angle OLN \cong \angle MNL$	2. Given
3. $\overline{LN} \cong \overline{NL}$	3. Reflexive Property
4. $\triangle LNO \cong \triangle LNM$	4. ASA

Problem 7:



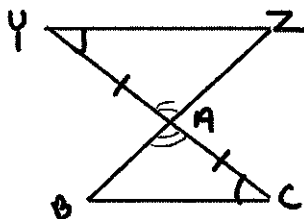
Statement	Reason
1. $\overline{PQ} \cong \overline{QS}$	1. Given
2. $\overline{QT} \cong \overline{QR}$	2. Given
3. $\angle PQT \cong \angle RQS$	3. Vertical $\angle$ s are $\cong$
4. $\triangle PQT \cong \triangle RQS$	4. SAS

Problem 8:



Statement	Reason
1. $\overline{UV} \cong \overline{UX}$	1. Given
2. $\angle UVW \cong \angle UWX$	2. Right Angle Congruence
3. $\overline{UW} \cong \overline{UW}$	3. Reflexive Property
4. <del><math>\triangle UWV \cong \triangle UWX</math></del>	<del>HL</del>
5. $\triangle UWV \cong \triangle UWX$	5. HL

Problem 9:



Statement	Reason
1. $\angle Y \cong \angle C$	1. Given
2. $\overline{YA} \cong \overline{CA}$	2. Given
3. $\angle YZA \cong \angle CBA$	3. Vertical Angles
4. $\triangle YZA \cong \triangle CBA$	4. ASA