Name:_____
Date Started: _____Date Completed: _____Score:_____

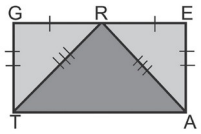
Learning Activity Sheet
Proving Triangle Congruence

Read each question carefully and choose the best answer. Write the letter of the correct answer on the space provided on the next pager:

1. Which of the following states that if two angles and the included side of onetriangle are congruent to the corresponding two angles and the included side ofanother triangle, then the two triangles are congruent?

A) SSS Postulate
B) SAS Postulate
C) ASA Postulate
D) SAA Theorem

2. Which of the following supports that $\Delta RGT \cong \Delta REA$?



A) SSS Postulate
B) SAS Postulate
C) ASA Postulate
D) SAA Theorem

3. Which of the following supports that $\Delta ABC \cong \Delta PQR$?

A) SSS Postulate
B) SAS Postulate
C) ASA Postulate
D) SAA Theorem

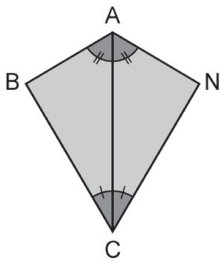
4. Which of the following supports that $\Delta BQY \cong \Delta LAD$?

A) SSS Postulate
B) SAS Postulate
C) ASA Postulate
D) SAA Theorem

5. Which of the following supports that $\Delta KWA \cong \Delta ALK$?

A) A. SSS Postulate
B) B. SAS Postulate
C) C. ASA Postulate
D) D. SAA Theorem

For items 6–10, refer to the given conditions and figure on the right.



Given: $\angle ACB \cong \angle ACN$
$\angle CAN \cong \angle CAB$
Prove: $\Delta ABC \cong \Delta ANC$

Proof:

	Statements		Reasons
1.	$\angle ACB \cong \angle ACN$	1.	(6)
2.	(7)	2.	Given
3.	$\overline{AC} \cong \overline{AC}$	3.	(8)
4.	(9)	4.	(10)

ANSWER SHEET: