Name

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H**Use when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

**N**Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Addition/Subtraction POE/POC	1		7
Multiplication/Division POE/POC			7
Substitution POE	4		7
Distributive Property			
Reflexive POE/POC	3		
Symmetric POE/POC	3		
Transitive POE/POC	1, 3, 6	5, 6	6, 7
Def. of Complementary/Supplementary Angles	4	2	
Def. of Complement/Supplement		2	
Def. of Congruent Angles/Segments	4		7
Def. of Linear Angles	4		
Def. of Segment Bisector		5	

1. Complete the proof. Given PQ = RSProve PR = QS

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STATEMENTS

1. /	$^{D}Q = RS$
<b>2</b> . /	PQ + QR = RS + QR
3.	
4. /	RS + QR = QS
<b>5</b> . /	PR = QS

REASONS	
1	
2	
3. Segment Addition Postulate (Post. 1.2	2)
4. Segment Addition Postulate (Post. 1.2	2)
5	

2. Complete the proof.

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Given \angle 1 is a complement of \angle 2.
\angle 2 \cong \angle 3
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**Prove**  $\angle 1$  is a complement of  $\angle 3$ .





- 3. Name the property that the statement illustrates.
  - a. If  $\overline{PQ} \cong \overline{ST}$  and  $\overline{ST} \cong \overline{UV}$ , then  $\overline{PQ} \cong \overline{UV}$ .
  - b.  $\angle F \cong \angle F$
  - c. If  $\overline{XY} \cong \overline{UV}$ , then  $\overline{UV} \cong \overline{XY}$ .
- Write a two-column proof on your own paper: T, statements, reasons, & numbers.
   Given ∠GFH ≃ ∠GHF

**Prove**  $\angle EFG$  and  $\angle GHF$  are supplementary.

5. Write a two-column proof on your own paper: T, statements, reasons, & numbers. Given  $\overline{AB} \cong \overline{FG}$ .

 $\overrightarrow{BF}$  bisects  $\overrightarrow{AC}$  and  $\overrightarrow{DG}$ . **Prove**  $\overrightarrow{BC} \cong \overrightarrow{DF}$ 





Advanced Solved ALL!

7. Write a two-column proof on your own paper: T, statements, reasons, & numbers. Solve for x using the given information and justify each step.

Given  $\overline{QR} \cong \overline{PQ}, \overline{RS} \cong \overline{PQ}$ 

Basic





Intermediate