Two Colum in Proofs
For each question, draw a conclusion based on the given information (use the vocabulary on the first page to help guide you)
1.

2.

3.

4.


1. $\overline{A D}$ bisects $\overline{C B}$.
2. $\overline{C D} \cong \overline{B D}$
3. Given
4. A segment bisector divides a segment into two congruent
segments.

| Statements | Reasons |
| :--- | :--- |

1. $\overline{P R}$ is a median in $\triangle P Q S$. 1. Given
2. $R$ is the midpoint of $\frac{\text { sa }}{\text { ma }}$
3. A median connects the vertex to the midpoint of the opp. side
4. $\overline{A D}$ bisects $\angle C A B$. Reasons
5. Given
6. $41 \cong 42$
7. An angle bisector divides an bugle into two longrabat angles
8. 


6.

7.

8.

 Reasons

1. $\overline{A D}$ is an altitude in $\triangle A B C$. 1. Given
2. $\Varangle A D B$ and $\forall A D C$ are
right $Y^{\prime} s$
3. An altitude is $a$ line from a vertex that is 1 to the opp. side





| Statements | Reasons |
| :--- | :--- |
| 1. $\angle 5 \cong \angle 8$ | 1. Given |
| 2. | 2. |

10. 



1) Postulate: A statement whose truth value is accepted without proof.
2) Theorem: A statement that is proved through deductive reasoning.
3) Deductive: Using the fact to formulate Reasoning: Using conclusions that must be true.
4) Addition Postulate : If congruent segments/ angles are added to congruent segments/ angles, the sums are congruent.
5) Subtraction Postulate: If congruent segments/ angles ace subtracted from congruent segments) angles, the differences are congruent.
