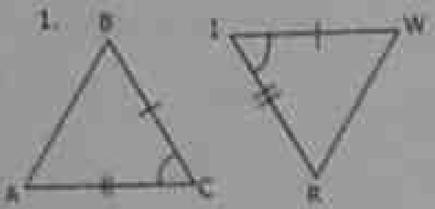
Name: ____________________

23: Proving Triangles Congruent: ASA, AAS, SAS, SSS

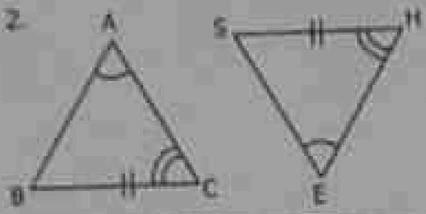
For each problem give the correct naming order of the congruent triangles. Write that name in order on the lines for the problem number (see box at bottom). Also, indicate which postulate or theorem is being used.

1.



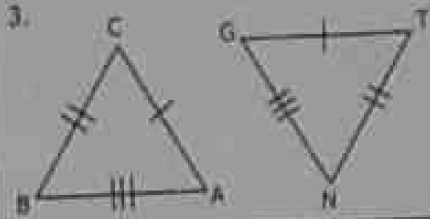
ΔABC ≅ Δ ______ by ______

2.



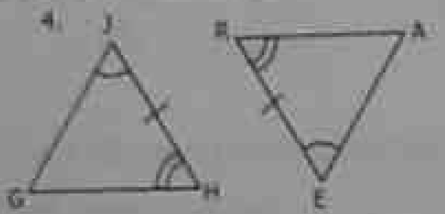
ΔABC ≅ Δ ______ by ______

3.



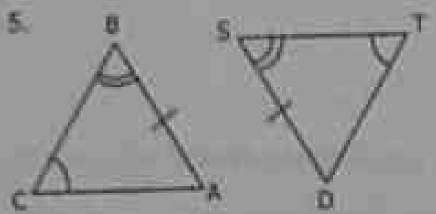
ΔABC ≅ Δ ______ by ______

4.



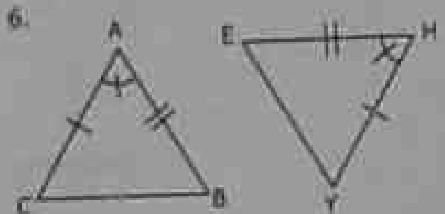
ΔGHJ ≅ Δ ______ by ______

5.



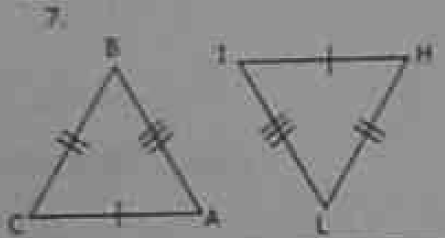
ΔABC ≅ Δ ______ by ______

6.



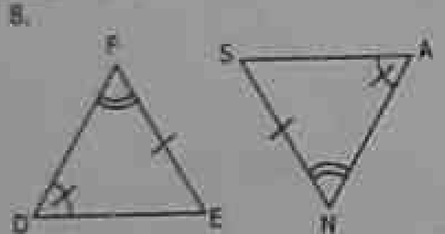
ΔABC ≅ Δ ______ by ______

7.



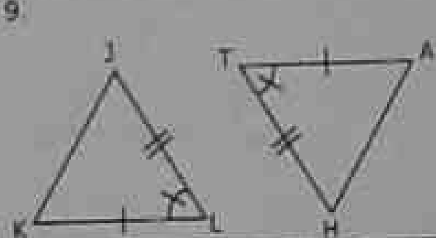
ΔABC ≅ Δ ______ by ______

8.



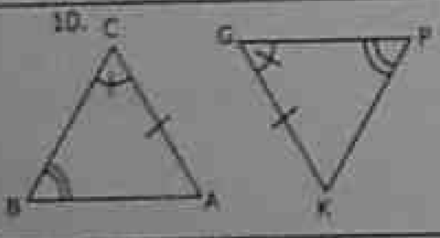
ΔDEF ≅ Δ ______ by ______

9.



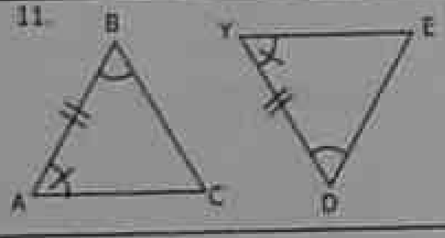
ΔJKL ≅ Δ ______ by ______

10.



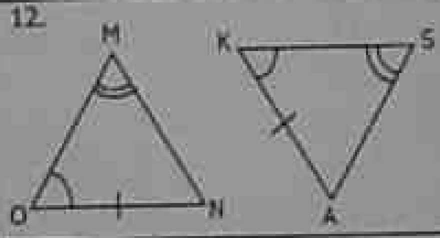
ΔABC ≅ Δ ______ by ______

11.



ΔABC ≅ Δ ______ by ______

12.



ΔMNO ≅ Δ ______ by ______

_ _ _ _ _ O _ _ N _ _ _ S _ _ E _ I _ _ _ _ _ T _

4 4 4 8 8   8 12   12 12 2   2 2   5   5 5 9 9 9   6

_ _ _ E E _ _ _ O _ _ N _ U _ _ _ _ T _ E _ _ I _ .

6 6 10   10 10 1   1 1   3   3 3 7 7   7   11 11   11

(When you are done with the puzzle, there are: 3 SAS, 5 AAS, 2 ASA, and 2 SSS instances.)