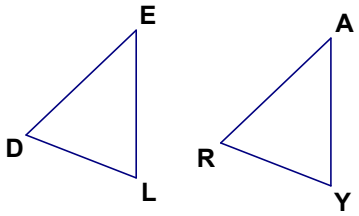
Name _____ Date _____
Mr. Schlansky Geometry

Congruent Triangle Methods

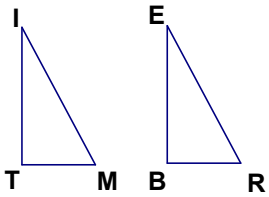
1. In the diagram below of Δ DEL and Δ RAY, $\angle D \cong \angle R$, $\angle E \cong \angle A$, and $\overline{EL} \cong \overline{AY}$
   Which of the follow could be used to prove that $\Delta DEL \cong \Delta RAY$?

(1) ASA (3) AAS
(2) AA (4) SAS



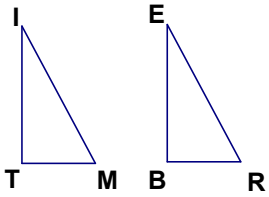
2. In the diagram below of Δ TIM and Δ BER, $\angle T$ *and* $\angle B$ are right angles, $\overline{IM} \cong \overline{ER}$, and $\overline{TM} \cong \overline{BR}$
   Which of the follow could be used to prove that $\Delta TIM \cong \Delta BER$?

(1) ASS (3) HL
(2) AA (4) SAS



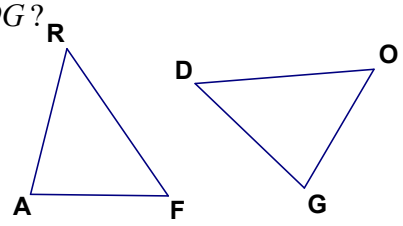
3. In the diagram below of Δ TIM and Δ BER, $\angle T$ *and* $\angle B$ are right angles, $\overline{IT} \cong \overline{EB}$, and $\overline{TM} \cong \overline{BR}$
   Which of the follow could be used to prove that $\Delta TIM \cong \Delta BER$?

(1) ASS (3) HL
(2) AA (4) SAS



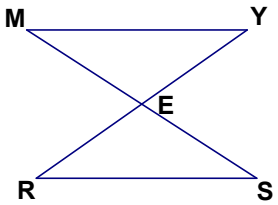
4. In the diagram below of Δ ARF and Δ DOG, $\overline{GD} \cong \overline{AR}$, $\overline{RF} \cong \overline{DO}$, and $\angle D \cong \angle R$
   Which of the follow could be used to prove that $\Delta ARF \cong \Delta DOG$?

(1) AAS (3) HL
(2) ASA (4) SAS

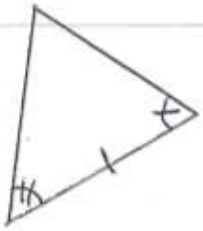


5. In the diagram below, $\overline{ME} \cong \overline{ES}$, $\angle MEY \cong \angle SER$, and $\angle M \cong \angle S$
   Which of the follow could be used to prove that $\Delta MEY \cong \Delta SER$?

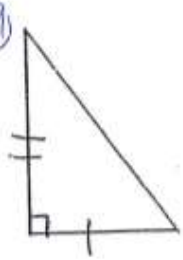
(1) AAS (3) HL
(2) ASA (4) SAS

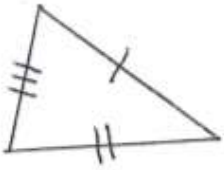


6. 

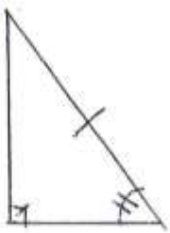
7. 

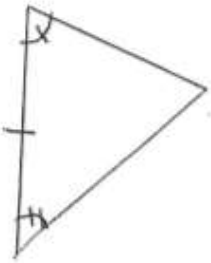
8. 

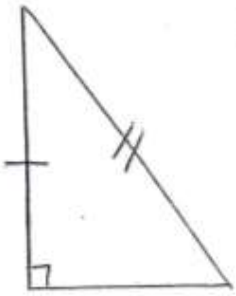
9. 

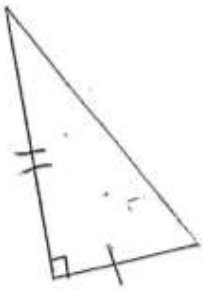
10. 

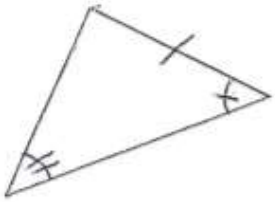
11. 

12. 

13. 

14. 

15. 

16. 

17.