

Name: _____

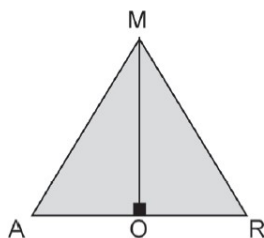
Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet Solving Corresponding Parts of Congruent Triangles

Write the letter of the correct answer on the answer sheet provided.

1. If $AC \cong EF$, what else should be true to satisfy the L-AA Theorem?
 A. $BC \cong DE$ C. $\angle B \cong \angle D$
 B. $AB \cong DF$ D. $\angle A \cong \angle F$
2. If $\angle ABC \cong \angle EDF$, what else should be true to satisfy the H-AA Theorem?
 A. $BC \cong DE$ C. $\angle B \cong \angle D$
 B. $AB \cong DF$ D. $\angle A \cong \angle F$
3. If $AB \cong DF$, what else should be true to satisfy the H-L Theorem?
 A. $AC \cong EF$ C. $\angle B \cong \angle D$
 B. $AB \cong DF$ D. $\angle A \cong \angle F$

For items 4–5, use the figure below. $\triangle MOA$ and $\triangle MOR$ are right triangles.



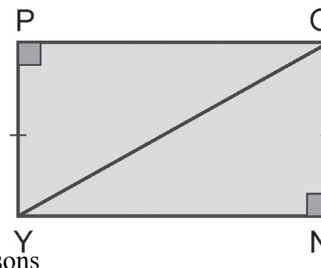
4. If $AM \cong MR$, what else should be true to satisfy the H-AA Theorem?
 A. $\angle M \cong \angle M$ C. $\angle A \cong \angle R$
 B. $\angle AMO \cong \angle ORM$ D. $\angle AMO \cong \angle OMR$
5. If $AO \cong OR$, which of the following can be used to prove that $\triangle AMO \cong \triangle RMO$?
 A. L-L Theorem
 B. L-AA Theorem
 C. H-AA Theorem
 D. H-L Theorem

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

Given: $\triangle OPY$ and $\triangle ONY$ are right triangles.

$PY \cong NO$

Prove: $PO \cong NY$



Proof:

Statements

1. $\triangle OPY$ and $\triangle ONY$ are right triangles.
2. _____ (7) _____
3. _____ (8) _____
4. $\triangle OPY \cong \triangle ONY$
5. $PO \cong NY$

Reasons

1. _____ (6) _____
2. Given
3. Reflexive Property
4. _____ (9) _____
5. _____ (10) _____

ANSWER SHEET:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____