| DO NOW – Geometry Local1 Lomac 2014-2015 Date | <u>.</u> | due | Congruence 4.3L |
|--|-------------|---|--|
| (DN)Copy and complete the statement: In lesson 4.1L, SAS stood for What will these abbreviations stand for? ASA SSA SSS AAA AAS HL (this one is a challenge) | Name LO: | I can determine wh be proven congrue SAS. | Per ether or not two triangles can nt by any shortcuts besides |

(1) transparen cies, dry erase markers, eraser, compass, straightedg e, tracing paper

ASA

Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps $\triangle A'B'C'$ back to $\triangle ABC$. Write a description and justification for each step in the sequence of transformations.





ASA does / does not guarantee that 2 triangles are congruent.

](2) transparen cies, dry erase markers, eraser, compass, straightedg e, tracing paper

SSS Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps \triangle HGI to \triangle ABC. Write a description and justification for each step in the sequence of transformations.



SSS does / does not guarantee that 2 triangles are congruent.

(3) transparen cies, dry erase markers, eraser, compass, straightedg e, tracing paper

Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps $\triangle LKJ$ to $\triangle ABC$. Write a description and justification for each step in the sequence of transformations.





AAS does / does not guarantee that 2 triangles are congruent.

(4) transparen cies, dry erase markers, eraser, compass, straightedg e, tracing paper

Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps $\triangle MNO$ to $\triangle ABC$. Write a description and justification for each step in the sequence of transformations.





SSA

(5a) transparen cies, dry erase markers, eraser, compass, straightedg e, tracing paper

Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps \triangle SUT to \triangle ABC. Write a description and justification for each step in the sequence of transformations.

s T



HL

HL does / does not guarantee that 2 triangles are congruent.



transparen Two shapes are congruent if there is a sequence of transformations (1 or more) that map one shape to the other. Determine a sequence of transformations that maps \triangle XVW to \triangle ABC. Write a description and justification for each step in the sequence of transformations.

eraser, compass, straightedg e, tracing paper

](6)

cies, dry erase

markers,





В



Notes for congruent triangles and proof

Cut, arrange, check, and THEN glue or tape



