Lexington Public Schools
Math 1: Algebra, Geometry and Statistics
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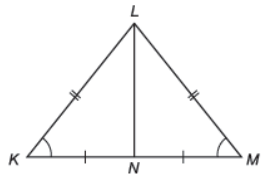
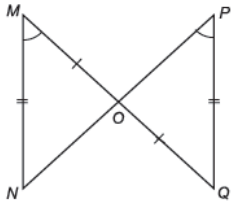
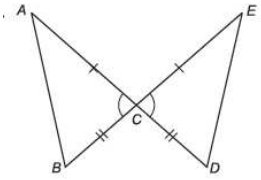
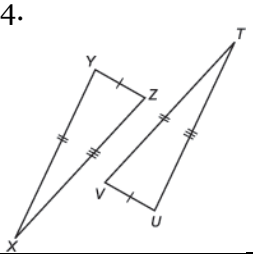
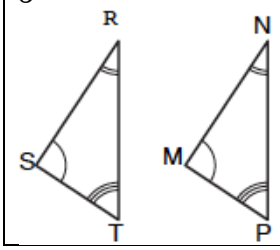
http://lps.lexingtonma.org/Page/2434
Name:
Date:

Exit Ticket 89 – Triangle Congruence Shortcuts – Section 8.04 Part 1

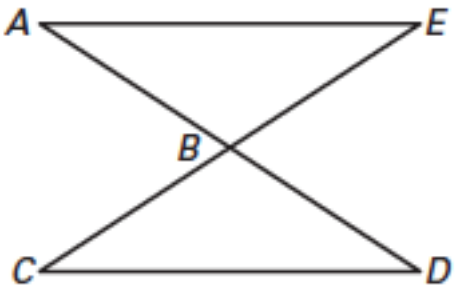
CORE

A. Determine whether each pair of triangles are congruent. If they are congruent, complete the congruence statement and state the shortcut. If they may not be congruent, write CBD (for Cannot Be Determined) and explain why they may not be congruent.

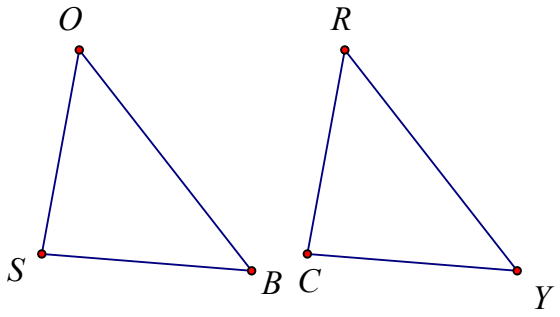
Figure	Congruence Statement or Cannot Be Determined	Shortcut or Why Not
1. 	$\Delta KLN \cong$ _____	
2. 	$\Delta MNO \cong$ _____	
3. 	$\Delta ABC \cong$ _____	
4. 	$\Delta XYZ \cong$ _____	
5. 	$\Delta RST \cong$ _____	

B. Mark each pair of triangles to make the statement true.

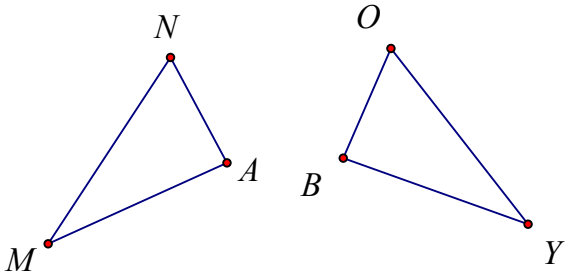
1. $\Delta ABE \cong \Delta DBC$ by SAS triangle congruence shortcut.



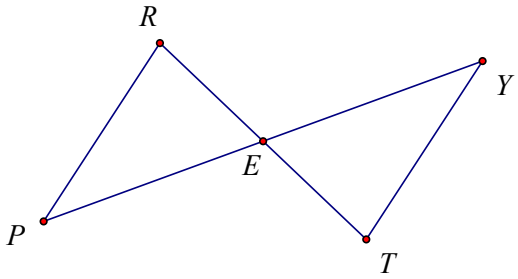
2. $\Delta SOB \cong \Delta CRY$ by SSS triangle congruence shortcut.



3. Some parts are known, but there is not enough information to determine if $\Delta MAN \cong \Delta YBO$.



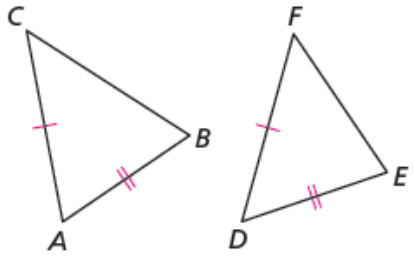
4. $\Delta PRE \ncong \Delta YTE$ because congruent parts are not corresponding.



EXTENSION

C. Determine what additional information must be added in order to make each statement true.

1. $\Delta ABC \cong \Delta DEF$ by SSS triangle congruence shortcut.



2. $\Delta HGI \cong \Delta FGS$ by SAS triangle congruence shortcut.