Name _____ Date _____

Student score:
How well do you feel you understand this learning target:
A
B
C
D
F

If you turn this in on time: do the odds.
If you turn this in late or you are doing it over: do the evens.

LESSON 4.5

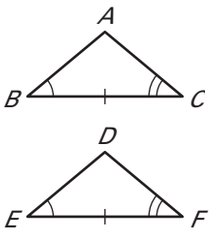
Practice A

For use with pages 249–255

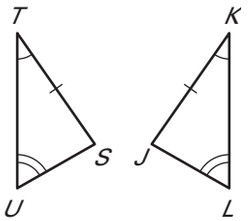
Teacher Score:

Is it possible to prove that the triangles are congruent? If so, state the postulate or theorem you would use.

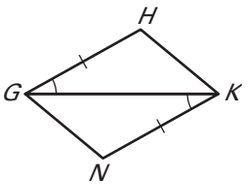
1.



2.



3.

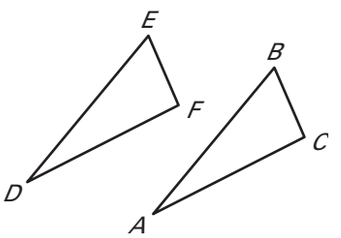


State the third congruence that is needed to prove that $\triangle DEF \cong \triangle ABC$ using the given postulate or theorem.

4. **GIVEN:** $\overline{DE} \cong \overline{AB}$, $\angle D \cong \angle A$, ? $\cong$?
Use the AAS Congruence Theorem.

5. **GIVEN:** $\overline{FE} \cong \overline{CB}$, $\angle F \cong \angle C$, ? $\cong$?
Use the ASA Congruence Postulate.

6. **GIVEN:** $\overline{DF} \cong \overline{AC}$, $\angle F \cong \angle C$, ? $\cong$?
Use the SAS Congruence Theorem.

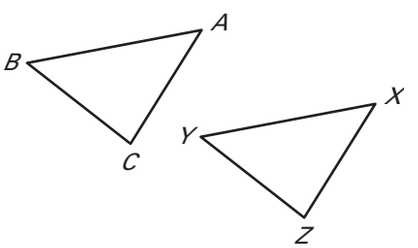


State the third congruence that is needed to prove that $\triangle ABC \cong \triangle XYZ$ using the given postulate or theorem.

7. **GIVEN:** $\angle C \cong \angle Z$, $\overline{AC} \cong \overline{XZ}$, ? $\cong$?
Use the AAS Congruence Theorem.

8. **GIVEN:** $\angle B \cong \angle Y$, $\overline{AB} \cong \overline{XY}$, ? $\cong$?
Use the ASA Congruence Postulate.

9. **GIVEN:** $\overline{BC} \cong \overline{YZ}$, $\angle B \cong \angle Y$, ? $\cong$?
Use the SAS Congruence Theorem.



Tell whether you can use the given information to determine whether $\triangle JKL \cong \triangle RST$.

10. $\angle J \cong \angle R, \angle K \cong \angle S, \angle L \cong \angle T$

11. $\overline{JK} \cong \overline{RS}, \angle J \cong \angle R, \angle L \cong \angle T$

12. $\angle K \cong \angle S, \angle L \cong \angle M, \overline{KL} \cong \overline{ST}$

13. $\angle J \cong \angle R, \overline{KL} \cong \overline{ST}$

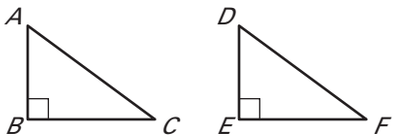
Name _____ Date _____

LESSON 4.5

Practice A *continued*

For use with pages 249–255

14. Multiple Choice Which postulate or theorem can you use to prove that $\triangle ABC \cong \triangle DEF$?



A. AAS **B.** ASA

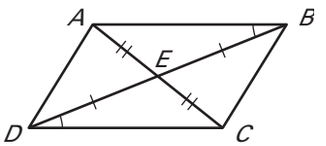
C. SAS **D.** Not enough information

***Explain* how you can prove that the indicated triangles are congruent using the given postulate or theorem.**

15. $\triangle ABE \cong \triangle CDE$ by SAS

16. $\triangle ABE \cong \triangle CDE$ by ASA

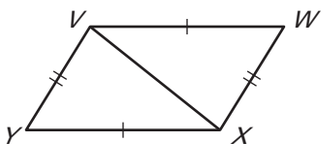
17. $\triangle ABE \cong \triangle CDE$ by AAS



18. Proof Complete the proof.

GIVEN: $\overline{VW} \cong \overline{XY}$, $\overline{WX} \cong \overline{YV}$

PROVE: $\triangle WXV \cong \triangle YVX$



Statements	Reasons
1. $\overline{VW} \cong \overline{XY}$	1. ?
2. $\overline{WX} \cong \overline{YV}$	2. ?
3. $\overline{VX} \cong \overline{VX}$	3. ?
4. $\triangle VWX \cong \triangle XYV$	4. ?
5. $\triangle WXV \cong \triangle YVX$	5. ?

19. Proof Write a proof.

GIVEN: $\overline{BE} \cong \overline{BC}$, $\angle A \cong \angle D$

PROVE: $\triangle ABE \cong \triangle DBC$