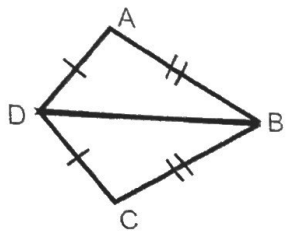
Unit 2 Part 3 Review

Standard: Triangle Congruence

Name: _____

I. State if the two triangles are congruent. If they are, state whether it is SSS, SAS, ASA, AAS, or HL.

1.



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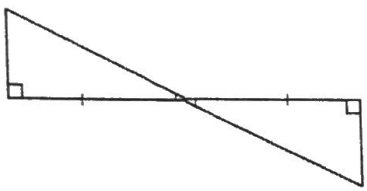

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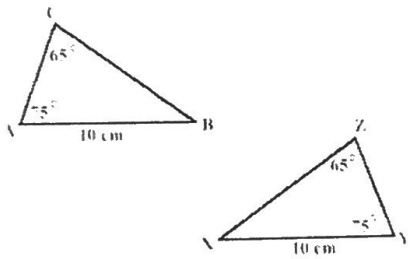

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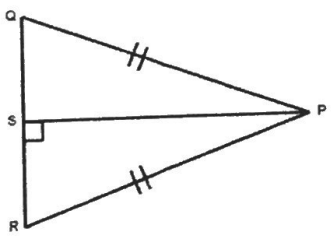

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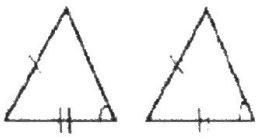

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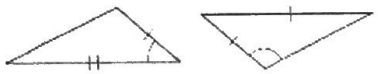

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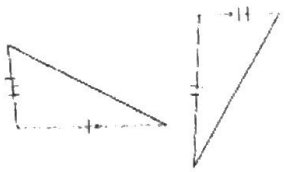

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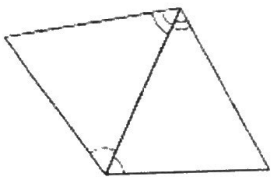

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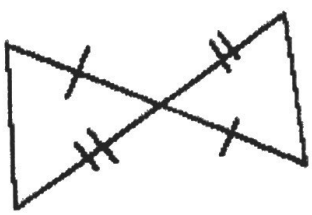
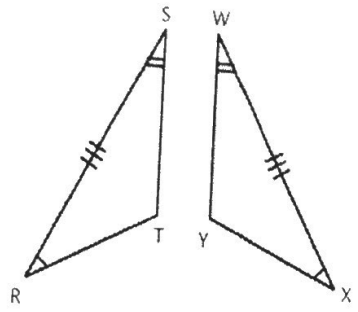
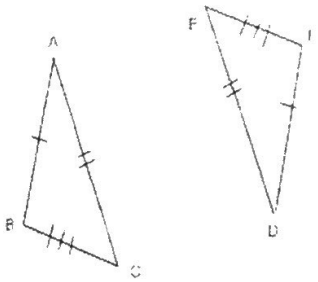


II. Finish the congruence statement.

10. $\Delta YXW \cong \Delta$_____

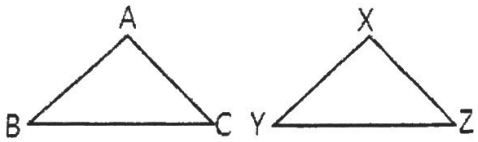


11. $\Delta CAB \cong \Delta$_____

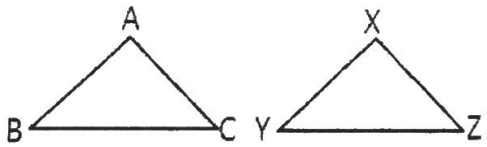


III. Selected Response – Choose the ONE best answer

12. **Given:** $\angle C \cong \angle Z$ and $\angle A \cong \angle X$
What OTHER piece of information is needed to show ΔABC and ΔXYZ by ASA?

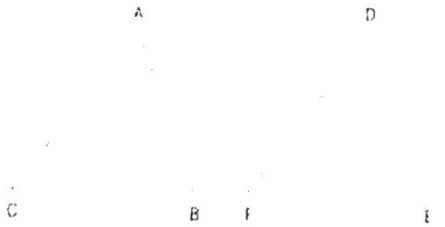


13. 11. **Given:** $\angle C \cong \angle Z$ and $\angle A \cong \angle X$
What OTHER piece of information is needed to show ΔABC and ΔXYZ by AAS?



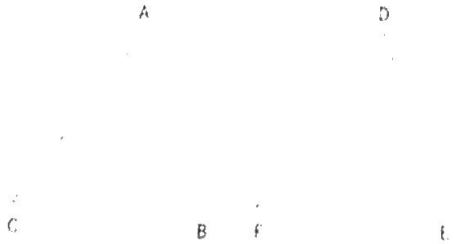
14. **Given**: $\angle B \cong \angle E$ and $\angle C \cong \angle F$

What OTHER piece of information is needed to show $\Delta ABC \cong \Delta DEF$ by AAS?

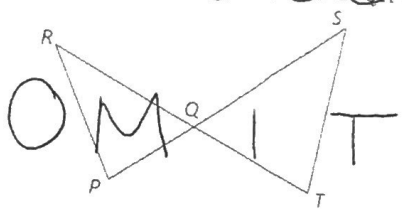


15. **Given**: $\angle B \cong \angle E$ and $\angle C \cong \angle F$

What OTHER piece of information is needed to show $\Delta ABC \cong \Delta DEF$ by ASA?

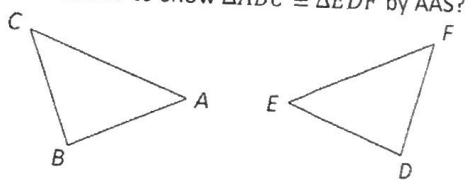


16. **Given:** Q is the midpoint of $\overline{PS}$ and $\angle R \cong \angle T$. How could your prove $\Delta PQR \cong \Delta SQT$?



17. **Given**: $\angle A \cong \angle E$ and $\overline{AC} \cong \overline{EF}$

What OTHER piece of information is needed to show $\Delta ABC \cong \Delta EDF$ by AAS?



IV. Multiple-Response – CHOOSE MULTIPLE ANSWERS

18. **Given**: $\Delta WHS \cong \Delta CAT$

Select the **THREE** true statements about the two congruent triangles.

a. $\angle HSW \cong \angle ATC$
b. $\angle H \cong \angle T$
c. $\angle WHS \cong \angle ATC$
d. $\overline{WH} \cong \overline{CA}$
e. $\overline{WS} \cong \overline{CT}$
f. $\overline{SH} \cong \overline{TC}$

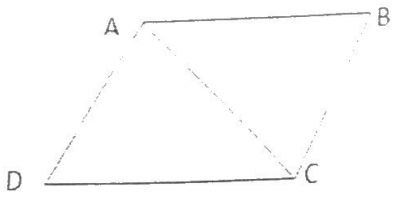
19. What **TWO** ways **cannot** prove two triangles are congruent?

a. SSS
b. SAS
c. ASA
d. AAS
e. AAA
f. SSA

V. Constructed Response

20. Given: $\overline{AB} \cong \overline{CD}$ and $\overline{AD} \cong \overline{CB}$

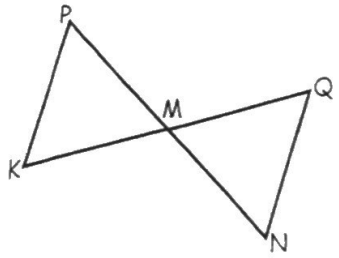
Prove: $\triangle CDA \cong \triangle ABC$



Statements	Reasons
1.	1. Given
2. $\overline{AD} \cong \overline{CB}$	2.
3.	3.
4.	4.

21. Given: $\angle P \cong \angle M$ and $\overline{PM} \cong \overline{NM}$

Prove: $\Delta PMK \cong \Delta NMQ$



Statements	Reasons
1. $\angle P \cong \angle M$	1.
2.	2. Given
3.	3.
4.	4.