

Quizizz

Triangle Congruence Review

Name : _____

Class : _____

Date : _____

1. Which is NOT a test to prove triangles congruent?

a) SAA

b) SSS

c) SSA

d) SAS

2. What does CPCTC stand for?

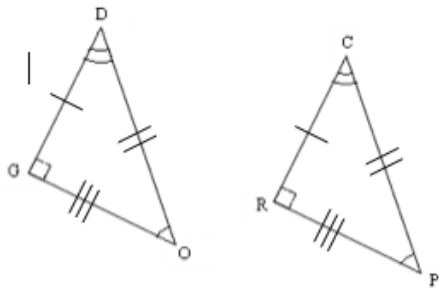
a) Corresponding Parts of Corresponding Triangles are Congruent

b) Congruent Parts of Corresponding Triangles are Congruent

c) Corresponding Parts of Congruent Triangles are Congruent

3. Complete the congruence statement.

1. $\triangle OGD \cong \triangle$ _____



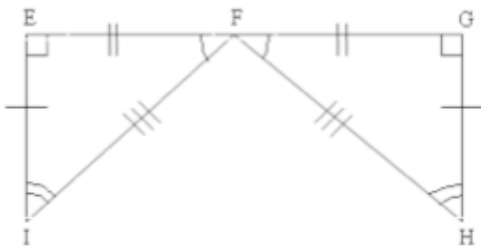
a) CRP

b) PCR

c) RPC

d) PRC

4. Which segment is congruent to EF?



a) HG

b) HF

c) GF

d) IE

5. Use the congruency statement to answer the following:

$$\angle F = \underline{\hspace{2cm}}$$

$$\triangle EFI \cong \triangle HGI$$

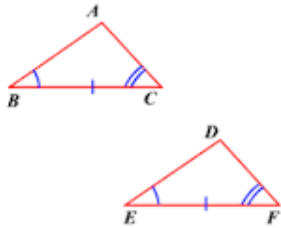
a) $\angle H$

b) $\angle I$

c) $\angle G$

d) not congruent to another angle

6. Are these triangles congruent? If so, state the rule which you used to determine congruence.



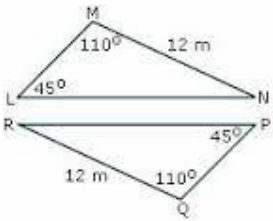
a) Yes by ASA

b) Yes by AAS

c) Yes by SSA

d) Not congruent

7. Are these triangles congruent? If so, state the rule which you used to determine congruence.



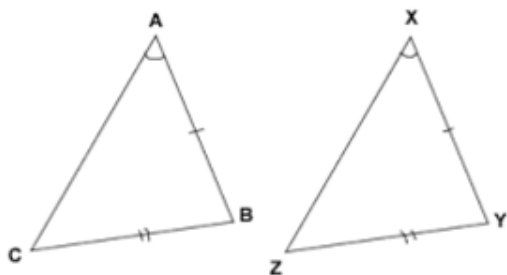
a) AAA

b) AAS

c) ASA

d) Not necessarily congruent

8. Are these triangles congruent? If so, state the rule which you used to determine congruence.



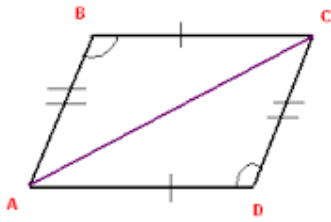
a) SSA

b) AAS

c) ASA

d) Not necessarily congruent

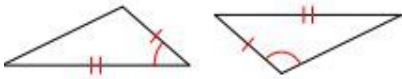
9. Are these triangles congruent? If so, state the rule which you used to determine congruence.



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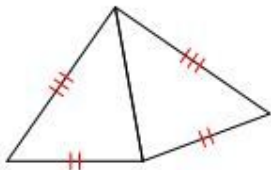
- | | |
|--|---|
| <input type="checkbox"/> a) SAS | <input type="checkbox"/> b) SSS |
| <input type="checkbox"/> c) Both SSS and SAS | <input type="checkbox"/> d) Not necessarily congruent |

10. Are the triangles congruent? Justify your answer.



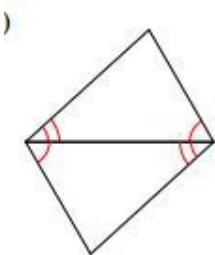
- | | |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> a) SSS | <input type="checkbox"/> b) SAS |
| <input type="checkbox"/> c) ASA | <input type="checkbox"/> d) SSA |

11. Congruent by



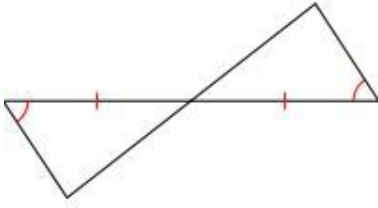
- | | |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> a) SSS | <input type="checkbox"/> b) SAS |
| <input type="checkbox"/> c) ASA | <input type="checkbox"/> d) AAS |

12. Congruent by



- | | |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> a) SSS | <input type="checkbox"/> b) SAS |
| <input type="checkbox"/> c) ASA | <input type="checkbox"/> d) AAS |

13. Congruent by



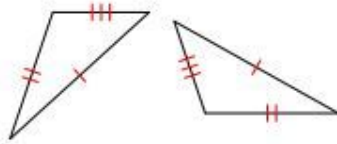
a) SSS

b) SAS

c) ASA

d) AAS

14. Congruent by



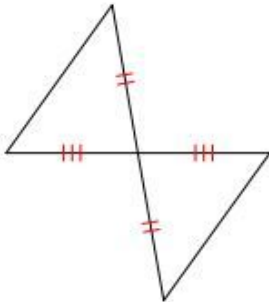
a) SSS

b) SAS

c) ASA

d) AAS

15. Congruent by



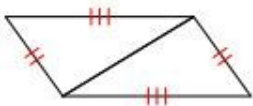
a) SSS

b) SAS

c) ASA

d) AAS

16. Congruent by



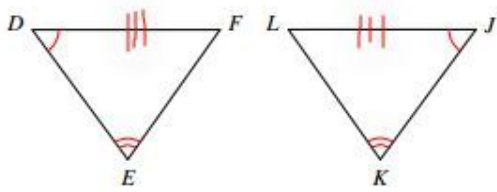
a) SSS

b) SAS

c) ASA

d) AAS

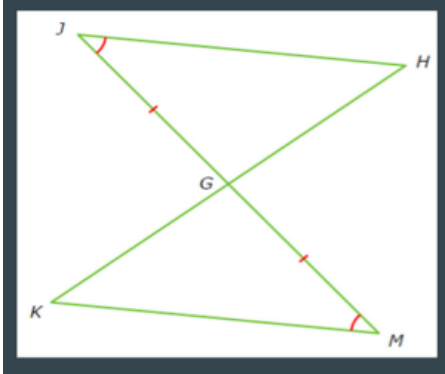
17. Congruent by



- a) SSS
 c) ASA

- b) SAS
 d) AAS

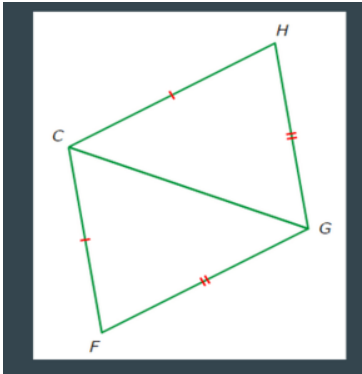
18. How are these two triangles congruent?



- a) SAS
 c) AAS

- b) ASA
 d) Not enough information

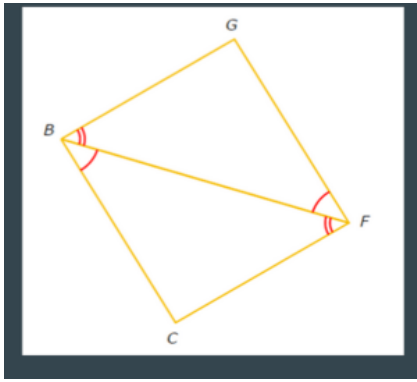
19. How are these triangles congruent?



- a) SSS
 c) SSA

- b) SAS
 d) Not enough information

20. How are these triangles congruent?



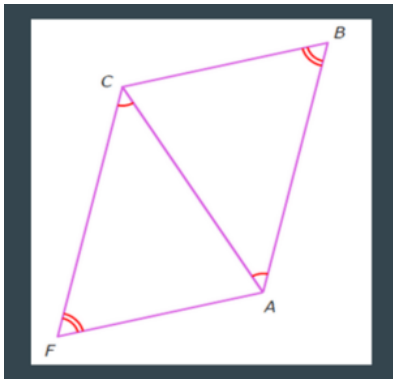
a) AAS

c) SAS

b) ASA

d) Not enough information

21. How are these two triangles congruent?



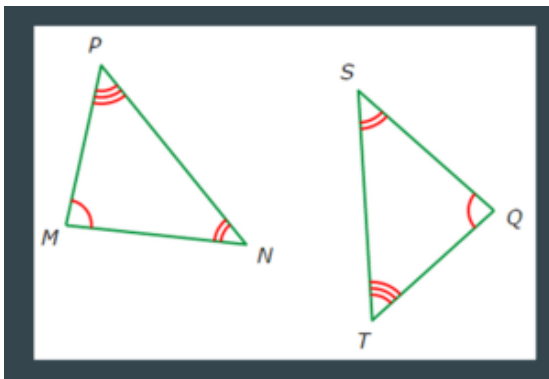
a) AAS

c) Not enough information

b) ASA

d) SAS

22. How are these triangles congruent?



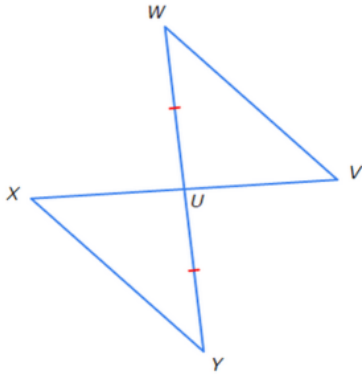
a) AAA

c) ASA

b) Not enough information

d) HL

23. How are these two triangles congruent?



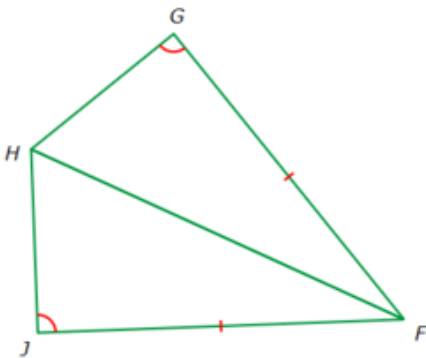
a) Not enough information

b) SAS

c) ASA

d) SSA

24. How are these two triangles congruent?



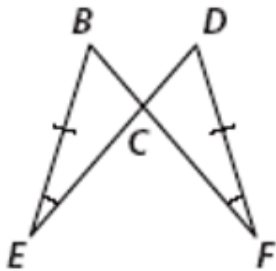
a) Not enough information

b) SAS

c) ASA

d) SSA

25. Are these triangles congruent?



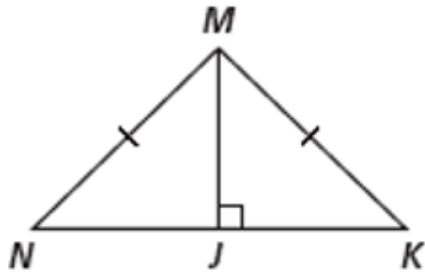
a) Yes, by AAS

b) Yes, by SAS

c) Yes, by ASA

d) No, this is the SSA one!!

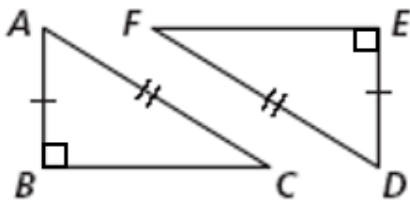
26. Are these triangles congruent?



- a) Yes, by SSS
 c) Yes, by AAS

- b) Yes, by SAS
 d) Yes, by HL

27. Are these triangles congruent?

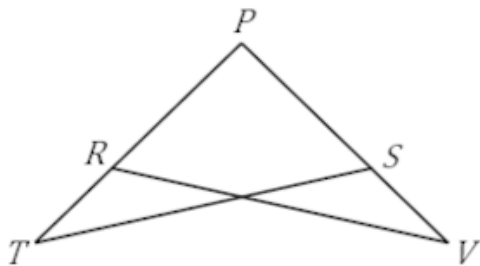


- a) Yes, by SAS
 c) Yes, by HL

- b) Yes, by AAS
 d) No, this is the SSA one!!

28. Are these triangles congruent?

Given: $\overline{PT} \cong \overline{PV}$,
 $\angle T \cong \angle V$

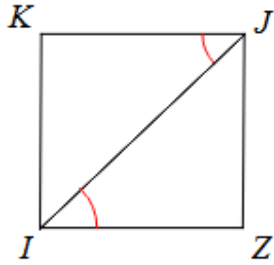


- a) Yes, by AAS
 c) No they are not congruent

- b) Yes, by ASA
 d) Not enough information to know for sure

29. State what third congruence is required in order to know that the triangles are congruent for the reason given (NOT including vertical angles or shared sides).

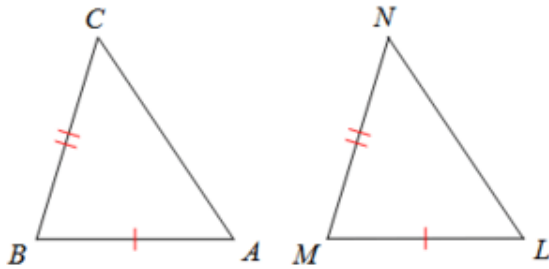
SAS



- | | |
|---|---|
| <input type="checkbox"/> a) $KJ \cong ZI$ | <input type="checkbox"/> b) $KI \cong ZJ$ |
| <input type="checkbox"/> c) $\angle K \cong \angle Z$ | <input type="checkbox"/> d) $\angle KIJ \cong \angle ZJI$ |

30. State what third congruence is required in order to know that the triangles are congruent for the reason given (NOT including vertical angles or shared sides).

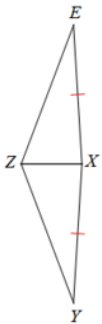
SAS



- | | |
|---|---|
| <input type="checkbox"/> a) $CA \cong NL$ | <input type="checkbox"/> b) $\angle C \cong \angle N$ |
| <input type="checkbox"/> c) $\angle A \cong \angle L$ | <input type="checkbox"/> d) $\angle B \cong \angle M$ |

31. State what third congruence is required in order to know that the triangles are congruent for the reason given (NOT including vertical angles or shared sides).

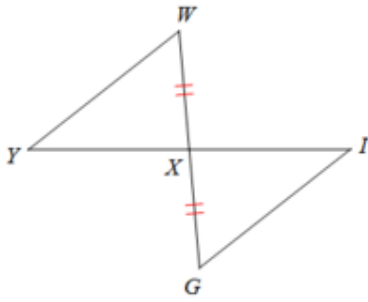
SSS



- | | |
|---|---|
| <input type="checkbox"/> a) $\angle E \cong \angle Y$ | <input type="checkbox"/> b) $\angle EZX \cong \angle YZX$ |
| <input type="checkbox"/> c) $\angle EXZ \cong \angle YXZ$ | <input type="checkbox"/> d) $EZ \cong YZ$ |

32. State what third congruence is required in order to know that the triangles are congruent for the reason given (NOT including vertical angles or shared sides).

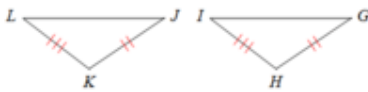
SAS



- a) $\angle W \cong \angle G$
 b) $\angle Y \cong \angle I$
 c) $YX \cong IX$
 d) $WY \cong GI$

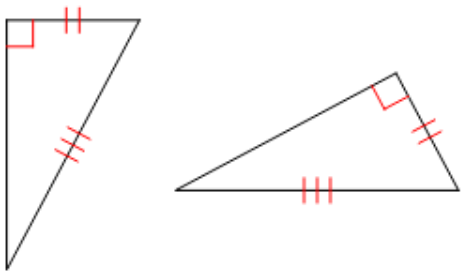
33. State what third congruence is required in order to know that the triangles are congruent for the reason given (NOT including vertical angles or shared sides).

SSS



- a) $LJ \cong IG$
 b) $\angle L \cong \angle I$
 c) $\angle J \cong \angle G$
 d) $\angle K \cong \angle H$

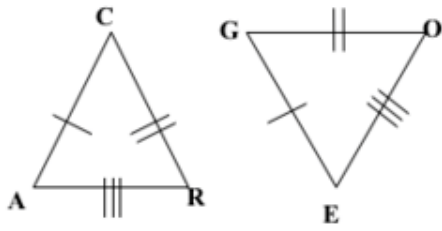
34. State if the two triangles are congruent. If they are, state which theorem you would use.



- a) Yes, SAS
 b) Yes, SSS
 c) Yes, HL
 d) No

35. Complete the congruence statement.

2. $\triangle RAC \cong \triangle$ _____



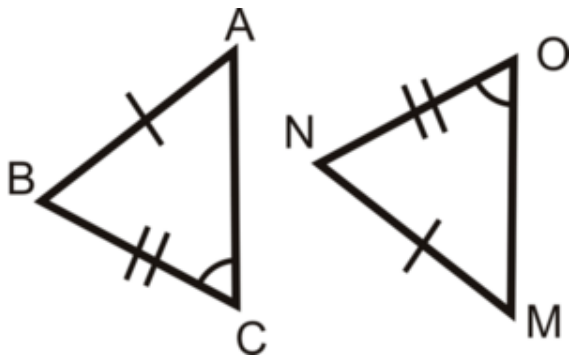
a) OEG

b) OGE

c) EGO

d) GOE

36.



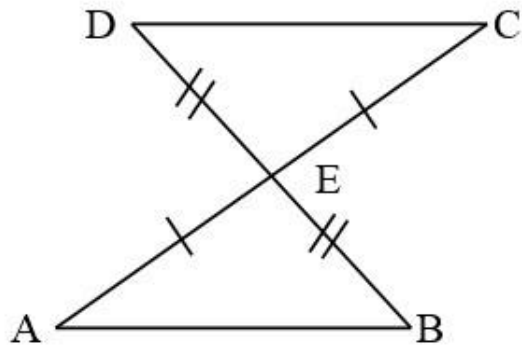
a) SAS

b) SSA

c) SSS

d) ASA

37. What is the correct congruence statement? $\triangle DEC \cong$ _____



a) $\triangle AEB$

b) $\triangle EAB$

c) $\triangle BEA$

d) Not Congruent

38. What additional information is needed to prove the triangles are congruent by HL?



- A) $\angle XWV \cong \angle UVW$ or $\angle X \cong \angle U$
- B) $\overline{XV} \cong \overline{UV}$
- C) $\angle XWV \cong \angle UVW$
- D) $\overline{WX} \cong \overline{WU}$

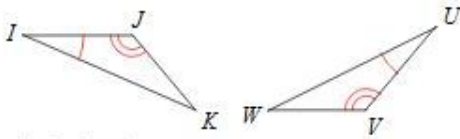
a) A

b) B

c) C

d) D

39. What additional information is required for the 2 triangles to be congruent by ASA?



- A) $\overline{IJ} \cong \overline{UV}$
- B) $\angle J \cong \angle V$ or $\angle K \cong \angle W$
- C) $\angle J \cong \angle V$
- D) $\overline{JK} \cong \overline{VW}$

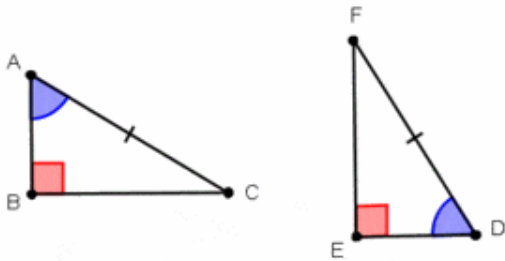
a) A

b) B

c) C

d) D

40. $\angle A \cong \angle$?



a) $\angle B$

b) $\angle E$

c) $\angle D$

d) $\angle F$