Grade -8 Mathematics Worksheet 2

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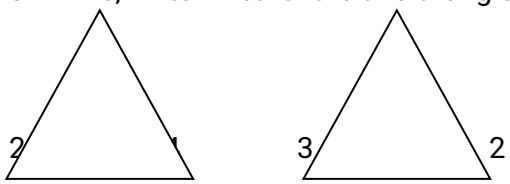
I. Work out (show all necessary steps)

1) In questions 1 – 6 if ΔRST ≅ ΔDEF , then complete the following

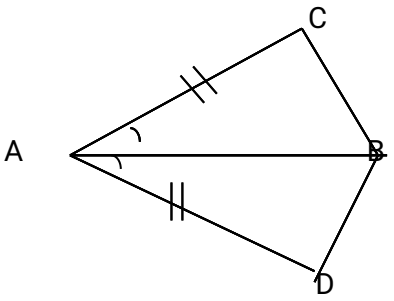
1. < SRT ≅ ____
2. RT ≅ _____
3. <E ≅ _____
4. DE ≅ _____
5. < T≅ _____
6. ____ ≅ FE

2) In questions 7 – 15, write whether the two triangles are congruent to not and given reasons.

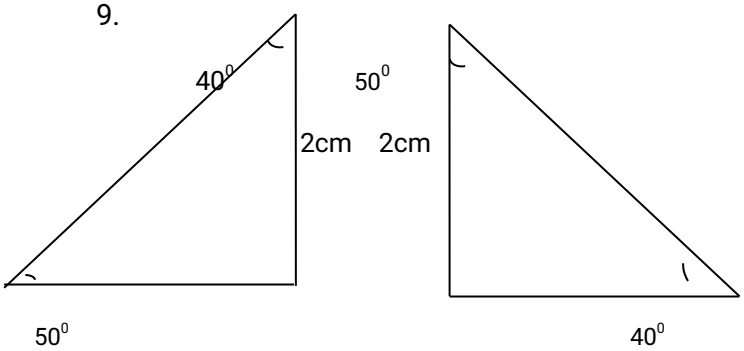
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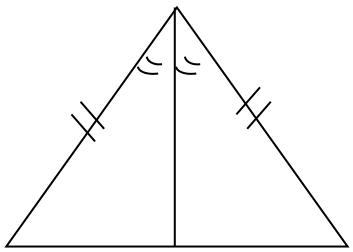
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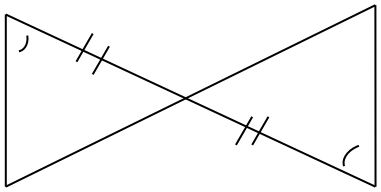


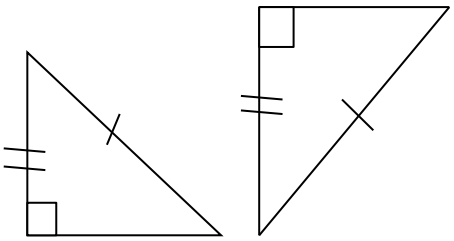
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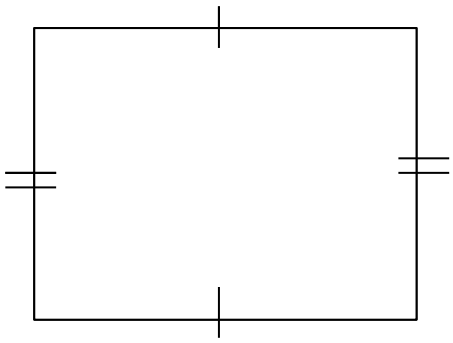


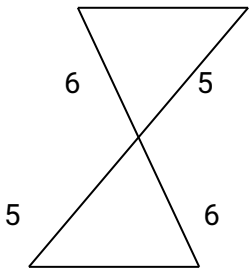
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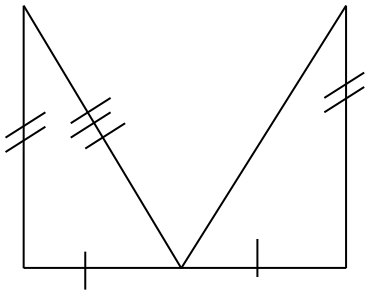
10. 

11. 

12. 

13. 

14. 

15. 

3) In questions 16-20which of the following conditions sufficient for Δ LMN and Δ EFG to be congruent. given reasons

16. $\overline{LM} \cong \overline{EF}$ $\overline{MN} \cong \overline{EG}$, < LMN ≅ <EFG

17. <LM, EF ≅ MN , ≅ FG , <LMN ≅ <EFG

18. < LMN ≅ EFG (right angles), LM≅ EF

19. <NML ≅ <GFE,<MLN ≅ <FEG,LM ≅ EF

20. $\overline{LM} \cong \overline{FG}$, $\overline{MN} \cong \overline{EF}$, $\overline{NL} \cong \overline{EG}$