WORKSHEET

Name: ..... Class: .....

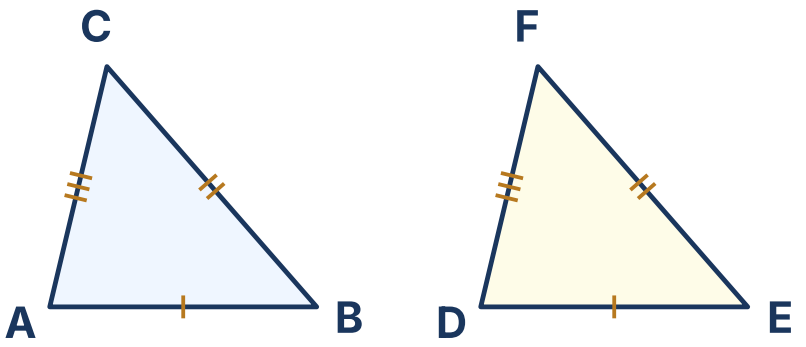
Date: .....

MARK ____ / 18

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 State the four conditions for congruency. **(4)**

2 In △ABC and △DEF, AB = DE, BC = EF and CA = FD. Prove that the triangles are congruent. **(3)**



△ABC ≡ △DEF — three pairs of equal sides (SSS)

3 Explain why SSA is not a valid congruency condition. **(2)**

4 What is the difference between congruent and similar triangles? **(2)**

5 $\triangle ABC \mid\mid\mid \triangle DEF$ with $AB = 6$, $DE = 9$ and $BC = 8$. Calculate EF. **(3)**

6 Two triangles have all three angles equal. Are they congruent? **(2)**

7 Which condition uses a right angle, the hypotenuse and one other side? **(1)**

8 In SAS, where must the angle be? **(1)**

TOTAL: 18 marks

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