Practice worksheet | Congruence and similarity

Triangle congruence tests

Name: _____ Date: _____

6 questions | 12 marks

1. Triangles have corresponding side lengths 4, 6, 8 cm and 4, 6, 8 cm. State the congruence test. [1 mark]

2. Two triangles each have angles 40° and 60°, and the side between these angles is 7 cm in both. State the test. [2 marks]

3. Two right triangles have hypotenuse 13 cm and a corresponding leg of 5 cm. State the test. [2 marks]

4. Triangles each have angles 35°, 65° and 80°. Is congruence guaranteed? Explain. [2 marks]

5. $AB = DE$, $AC = DF$ and angles A and D are equal. State a test and identify why it applies. [3 marks]

6. A student uses SSA as a general congruence test. Explain why this is unsafe. [2 marks]