ZiloAcademy

✨ Grade 9 Maths — Congruence ✨

Name: Demo **Date:** 26/11/2026

1. Which congruence test proves two triangles congruent in each case (answer with the abbreviation, separated by a comma)? 1) All three angles of one triangle equal all three angles of another, with no side lengths given 2) All three sides of one triangle equal all three sides of another

2. Which congruence test proves two triangles congruent when: A right angle, the hypotenuse, and one other side of one triangle equal the same in another? (answer with the abbreviation, e.g. "SSS")

3. Triangle 1 has sides 4 cm, 20 cm, 14 cm. Triangle 2 has sides 4 cm, 20 cm, 14 cm. Are they congruent by SSS? (yes/no)

4. Triangle 1 has sides 10 cm, 14 cm, 9 cm. Triangle 2 has sides 10 cm, 14 cm, 9 cm. Are they congruent by SSS? (yes/no)

5. Which congruence test proves two triangles congruent when: A triangle is rotated and reflected; two of its sides and the angle between them exactly match another triangle? (answer with the abbreviation, e.g. "SSS")

6. Which congruence test proves two triangles congruent when: Only one side of one triangle is known to equal one side of another, with no other information? (answer with the abbreviation, e.g. "SSS")

7. Triangle 1 has sides 5 cm, 7 cm, 18 cm. Triangle 2 has sides 7 cm, 7 cm, 18 cm. Are they congruent by SSS? (yes/no)

8. Which congruence test proves two triangles congruent in each case (answer with the abbreviation, separated by a comma)? 1) Two sides and a non-included angle of one triangle equal two sides and a non-included angle of another 2) Three matching rods are used to build two triangular frames, and every rod length matches between frames

9. Triangle 1 has sides 19 cm, 19 cm, 4 cm. Triangle 2 has sides 20 cm, 19 cm, 4 cm. Are they congruent by SSS? (yes/no)

10. Triangle 1 has sides 19 cm, 16 cm, 18 cm. Triangle 2 has sides 19 cm, 16 cm, 18 cm. Are they congruent by SSS? (yes/no)