

## Worksheet: Congruence of Triangles

ICSE · Class 7 · Mathematics · 5 questions · 10 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 10

**Q1.** Two triangles have sides 4 cm, 6 cm, 8 cm each. Which congruence criterion applies? [1 mark]

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**Q2.** Triangle ABC has  $AB = 5$  cm, angle  $A = 50$ ,  $AC = 7$  cm. Triangle PQR has  $PQ = 5$  cm, angle  $P = 50$ ,  $PR = 7$  cm. Are they congruent? Which criterion? [2 marks]

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**Q3.** In two right triangles, the hypotenuses are 13 cm and one side is 5 cm in each. Are they congruent? [2 marks]

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**Q4.** Triangle ABC is congruent to triangle DEF. If angle  $A = 70$  and angle  $B = 50$ , find angle F. [2 marks]

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**Q5.**  $AB = CD$  and AB is parallel to CD, intersecting at O. Prove triangle AOB is congruent to triangle COD. [3 marks]

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