

Worksheet: Congruence of Triangles

Andhra Pradesh State Board · 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]*

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]*

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

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

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