Worksheet: Triangles

NIOS · Class 10 · Mathematics · 4 questions · 10 marks

Name: _____ Date: _____ Score: _____ / 10

Q1. In △ABC, D lies on AB and E on AC with DE ∥ BC. If AD = 4 cm, DB = 6 cm and AE = 5 cm, find EC. *[2 marks]*

Q2. In △PQR, E lies on PQ and F on PR with PE = 2 cm, EQ = 3 cm, PF = 3 cm and FR = 4.5 cm. Is EF ∥ QR? *[2 marks]*

Q3. In △ABC, AB = 3 cm, AC = 4.5 cm and A = 65°. In △DEF, DE = 4 cm, DF = 6 cm and D = 65°. Are the triangles similar? Name the criterion. *[3 marks]*

Q4. A girl 1.5 m tall stands 3 m away from a lamp-post and casts a shadow 1.8 m long. Find the height of the lamp-post. *[3 marks]*