

Worksheet: Triangles

Kerala State Board · Class 10 · Mathematics · 4 questions · 10 marks

Name: _____	Date: _____	Score: _____ / 10
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Q1. In $\triangle ABC$, D lies on AB and E on AC with $DE \parallel BC$. If $AD = 4$ cm, $DB = 6$ cm and $AE = 5$ cm, find EC. [2 marks]

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

Q3. In $\triangle ABC$, $AB = 3$ cm, $AC = 4.5$ cm and $\angle A = 65^\circ$. In $\triangle DEF$, $DE = 4$ cm, $DF = 6$ cm and $\angle D = 65^\circ$. 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]