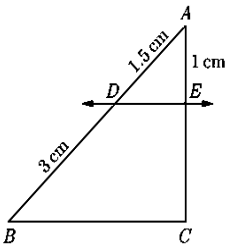
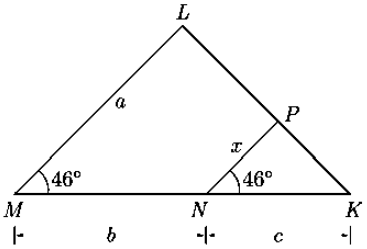
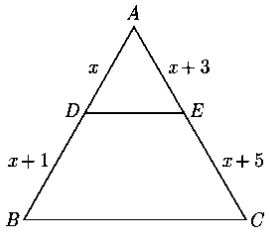
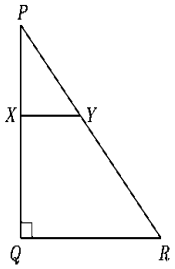
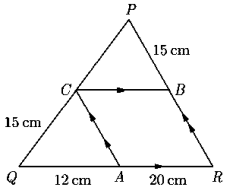
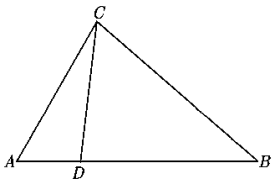
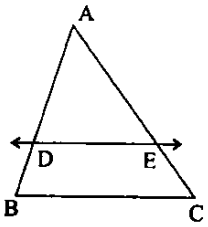
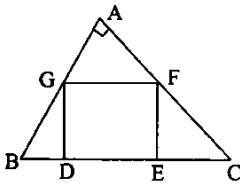
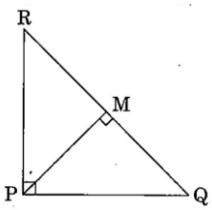
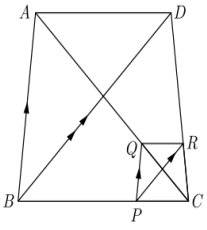
INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS
6. Triangles

Name: _____ Date:_____ Class: X Sec: ___

1.	In the given figure, DE∥BC. The value of EC is_____. 
2.	In the given figure, find x. 
3.	It is given that , $\Delta ABC \sim \Delta EDF$ such that AB=5cm, AC=7cm, DF=15cm and DE=12cm. Find the sum of the remaining sides of the triangles.
4.	The perimeters of two similar triangles are 25cm and 15cm respectively. If one side of the first triangle is 9cm, find the corresponding side of second triangle.
5.	In $\Delta ABC, DE \parallel BC$, find the value of x. 
6.	In the given figure, PQR is a triangle right angled at Q and XY∥ QR. If PQ=6cm, PY=4cm and PX:XQ=1:2. Calculate the length of PR and QR. 
7.	In the given figure, $CB \parallel QR$ and $CA \parallel PR$. If AQ=12cm, AR=20cm PB=CQ=15cm. Calculate PC and BR. 

8.	In the given figure, if $\angle ACB = \angle CDA$, $AC = 6cm \text{ and } AD = 3cm$. Find the length of AB. 
9.	In the given figure, in ΔABC, DE ‖ BC such that AD=2.4cm, AB=3.2 cm and AC=8cm, then what is the length of AE? 
10.	In the given figure, DEFG is a square in a triangle ABC right angled at A. Prove that i) $\Delta AGF \sim \Delta DBG$ ii) $\Delta AGF \sim \Delta EFC$ 
11.	In the given figure, ΔPQR is right–angled at P. M is a point on QR such that PM is perpendicular to QR. Show that PQ^2=QM x QR. 
12.	In the given figure, two triangles ABC and DBC lie on the same side of BC such that PQ‖ $BA \text{ and } PR \parallel BD. Prove \text{ that } QR \parallel AD.$ 
13.	In the given figure, DE ‖ AC and $\frac{BE}{EC} = \frac{BC}{CP}$. Prove that DC ‖ AP. 