

TEACHING LEARNING MATERIAL

Class :- Xth

Topic:- B.P.T.

Sub Topic:- Basic Proportionality Theorem

Mode of Activity:- Individual

Objective:- To verify the Basic Proportionality Theorem using parallel line Rolar and Triangle cut-outs

Material Required:- board, chart paper, coloured paper, pencil, sketch pen, gum, scale, a pair of scissors.

Steps & Procedures:-

1. Prepare a cut-out of Triangle PQR & fix it on a board.
2. Prepare a parallel line(AB) Rolar & fix it on the board in such a way that AB parallel to QR.
3. Now place the parallel line AB of Rolar by rolling it on the two sides PQ & PR of $\triangle PQR$ such that it cuts sides at A & B respectively.
4. Measure the lengths of line segments PA,AQ,PB,QR using scale & put these measurements in observation table.

Observation:p-

PA= 11.3 cm, AQ= 10.9 cm, $PA/AQ = 11.3/10.9 = 1.03$

PB= 10 cm, BR= 9.7 cm, $PB/BR = 10/9.7 = 1.03$

Therefore $PA/AQ = PB/BR$