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SCHOOL: STA

SUBJ ECT:TECHNICAL DRAWING.

CLASS:SS1.

TOPIC: EQUAL AREAS OF SIMILAR FIGURE.

SUB TOPIC 1: TO CONSTRUCT A RECTANGLE EQUAL IN AREAS TO A GIVEN TRIANGLE.

PROCEDURES

i. Draw the given triangle PQR.

ii.Draw perpendicular height RA.

iii.Bisect RA to give B.

iv.Draw CD parallel to PQ to pass through point B.

V.PQCD is the required rectangle.Area PQCD is equal to area PQR.

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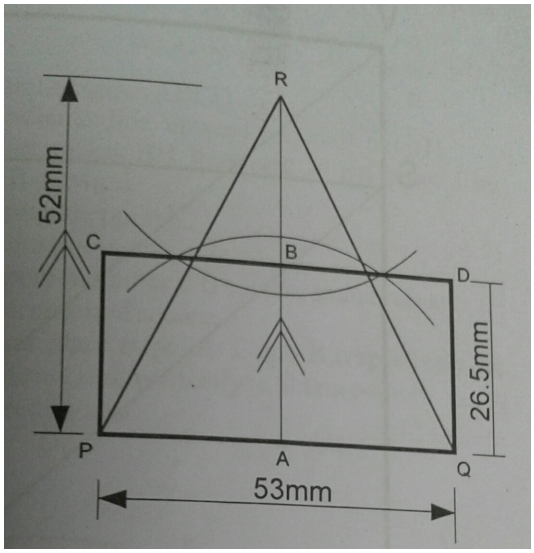


PROOF

Area of PQCD = Area of PQR

Length x Breadth = 1/2 × base x height

53mm x 26mm = 1/2 ×53mm x 52mm

=1378mm^2.

∴Area of PQCD = Area of PQR.

SUB TOPIC 2:To construct a rectangle of different side but equal in area to a given rectangle.

PROCEDURES

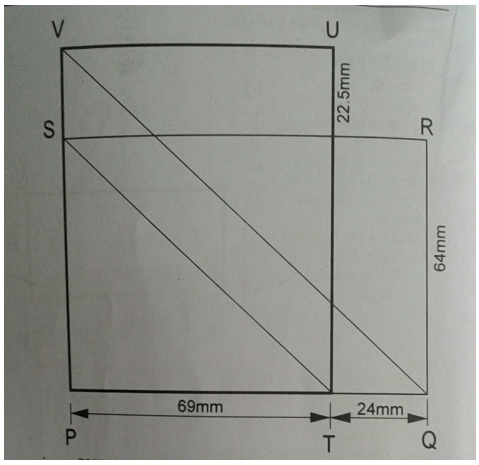
i. Draw the given rectangle PQRS.

ii. Mark the required side PT say 69mm.

iii.Draw ST.

iv.Further extend P.S..

PVTV.Draw QV parallel to ST.



vi.PVTU is the required rectangle.