The diagram below shows tape-distance measurement of line AB hindered by a river. Construction and measurement of perpendicular lines EB and DC were made. DEA is a straight line. CD = 90m, EB = 75m, BC = 45m.



A lake made it difficult to measure the distance between points P and Q. To find the length of PQ a perpendicular is erected from Q on PQ to meet a line extended from P to S at point R.



What is the length of PQ (to the nearest cm), if QR and PR were respectively, recorded as 25m and 52m?



→ PQ = 45m and 60cm

To measure the distance PB around the obstacle shown in figure the following constructions and measurements were carried out:



From A, a point on the extension of BP a line AR is constructed and perpendiculars from P and B are dropped on AR intersecting it at Q and C.

AP, PQ and BC were measured and recorded as: 40m, 16m and 60m respectively.

Compute the distance PB.











