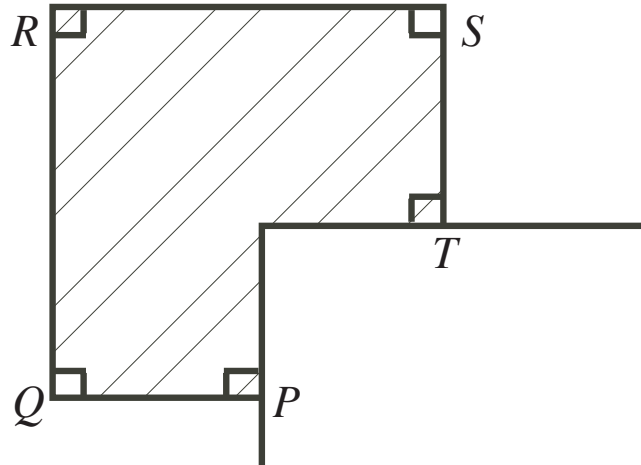




Problem of the Week Grade 11 and 12

Playing With a Full Deck



The diagram shows the plan for a deck which is to be built on the corner of a cottage. A railing is to be constructed around the four outer edges of the deck from P to Q to R to S to T . The length of the rail from P to Q is the same as the length of the rail from S to T and the length of the rail from Q to R is the same as the length of the rail from R to S . The total length of the railing is 30 m.

Determine the dimensions of the deck which will have the maximum area.

