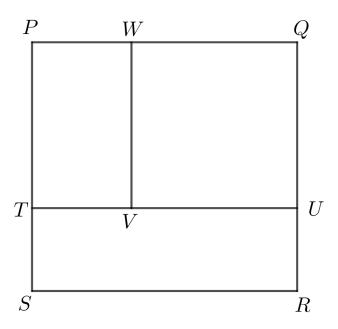
## Problem of the Week Problem D Square Parts

Square PQRS has W on PQ, U on QR, T on PS, and V on TU such that QUVW is a square, and PWVT and RSTU are rectangles.



The side length of square PQRS is 9 cm, and

area of QUVW — area of RSTU — area of RSTU — area of PWVT

If square QUVW has side length equal to x cm, determine the value of x and the areas of rectangles PWVT and RSTU.