

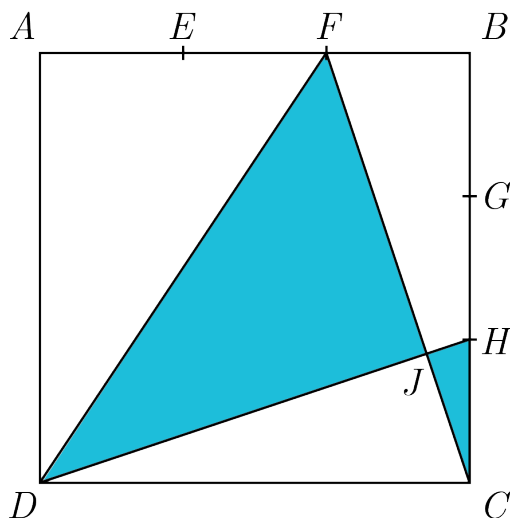


Problem of the Week

Problem E

A Fraction to Find

In square $ABCD$, points E and F lie on AB such that $AE = EF = FB = 10$. Similarly, points G and H lie on BC such that $BG = GH = HC = 10$. Let J be the intersection of line segments DH and CF . The areas of $\triangle DFJ$ and $\triangle CJH$ are then shaded.



Determine the fraction of the area of square $ABCD$ that is shaded.