Problem of the Week
Problem D
The Distance Across

Brett wishes to design a tile as shown. He will start with a white square $ABCD$ and then colour two pairs of identical isosceles triangles leaving the white rectangle $KLMN$. The design has a line from $M$ to $K$. If the total area of the coloured sections is $50 \, \text{cm}^2$, what is the length of $MK$?