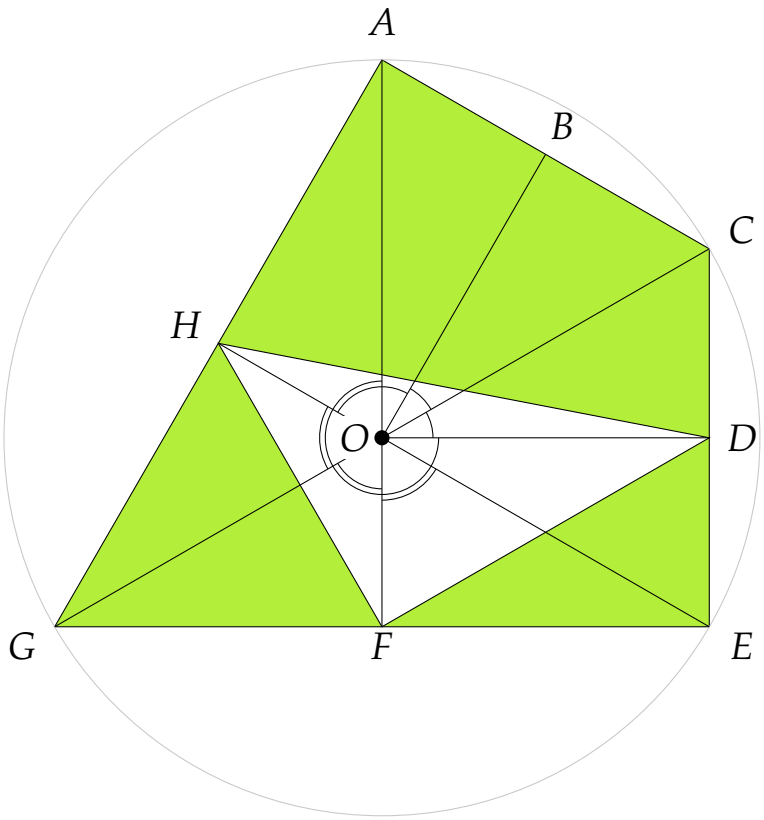

The vertices of quadrilateral $ACEG$ lie on a circle with centre O.

$\angle AOB = \angle BOC = \angle COD = \angle DOE$ and $\angle EOF = \angle FOG = \angle GOH = \angle HOA$

What fraction of $ACEG$'s area does it lose when $\triangle DFH$ is removed?