Octagon

1. Start with paper crosswise (facedown)

2. Fold in half again, left over right.

3. Fold in half again, matching the top down.

4. Bisect $\angle FGH$ by matching $\overline{GF}$ to $\overline{JI}$. Crease on $\overline{GI}$.

5. Turn over, flipping the bottom to the top.

6. Bisect $\angle JGH$ by matching $\overline{GH}$ to $\overline{JG}$. Crease on $\overline{JK}$.

7. Cut on $\overline{KF}$. Save and unfold $\triangle GKF$. 