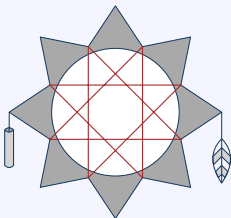
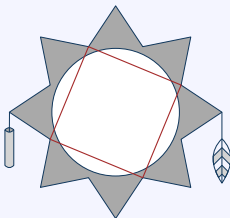


- Given a wheel with $n \leq 10^9$ evenly spaced notches.
- Wrap a string of yarn around it by starting at notch 1, and repeatedly connecting the yarn k notches ahead until you reach notch 1 again.
- What value of k maximizes the amount of used string?



A dreamcatcher with 8 notches, wrapped in a string of yarn for $k = 2$ and $k = 3$.



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