## $\Leftrightarrow \Leftrightarrow \mathsf{STAR} \ \mathsf{POLYGONS} \ \Leftrightarrow \ \bigstar$

An {n/m} star polygon is the shape formed by placing n dots equally spaced around a circle and connecting each one to those m spaces away. Here are some examples of star polygons:



I. Try drawing some star polygons:



2. Draw some more star polygons of your choice:



3. What do  $\{2n/n\}$  stars look like? Draw one example.



4. What do  $\{n/I\}$  stars look like? Draw one example.



5. What do  $\{n/n\}$  stars look like? Draw one example.



6. Draw a {10/4} star polygon. Notice that it looks like 2 {5/2} stars. Draw a {12/3} star polygon. What does it look like?



7. Which stars consist of a single drawn line, and which are multiple copies of other stars?

## 8. What do you think a {24/9} star would look like?

## 6. What is the sum of all acute angles in a





