

## Circles and polygons: star project

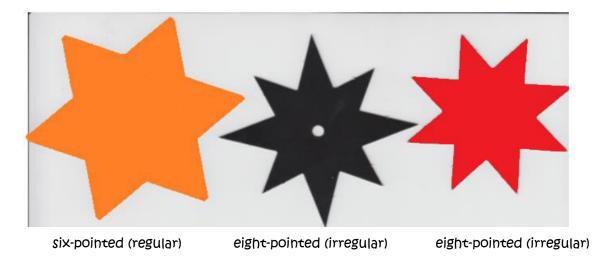
## 1. Mental geometry: think first - then follow your plan and Create

a) Imagine first, you will fold a square. At he end you have to Cut off the tip of a star. Which of the following stars can be created by folding and cutting off a tip.

- four-pointed star Oten-pointed star
- $\bigcirc$  six-pointed star  $\bigcirc$  eight-pointed star
  - () twelve-pointed star () sixteen-pointed star Stern

b) Now you can try out, which stars you can create by folding and cutting off a tipYou Can use origami papers (squares). Could you manage to get the star that you had planned before?

## 2. Creating stars by stich art!



Choose with your partner one of the three forms. Wrap round coloured embroidery thread, so that different nice (symmetric) pattern come up.

## 3. Stars Created with GeoGebra

Here you see examples of different ways to Create stars with GeoGebra.

Try to Create stars with different tips by using different ways.

