

# Creative DRAWings® April 14, 2011 Webinar

## Circular and Rectangular Arrays

### Circular Arrays

#### Tool Options

**Start Angle** – angle from 0° x-axis where your initial object (design) is placed, this object is denoted by a green line

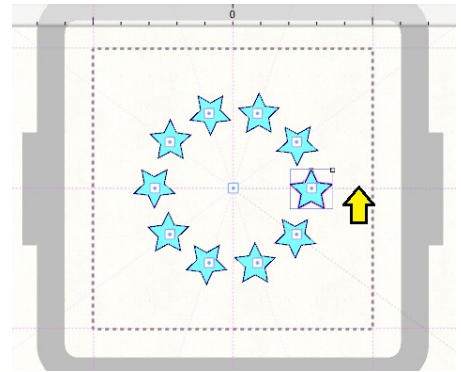
**End Angle** – if objects are evenly distributed, the Start and End Angles are equal, if objects are not evenly distributed, the End Angle is the angle between the initial (first) object and the end object, the end object is denoted by a red line

**Step Angle** – angle between the objects

**Step Count** – number of objects

**Clone Objects if Possible** – allows you to change the shape of one object with the edit shape nodes tool and all of the other objects will change

**Clockwise** – the rotation that the objects will be applied



#### Other Tools - Kaleidoscope

Each object has 3 control handles.

**Square** – when highlighted, click and drag this handle to move objects

**Arrow** – click on this arrow to rotate every other object by 90°

**Mirror (Open Book)** – click this tool and mirror every other object around a vertical axis



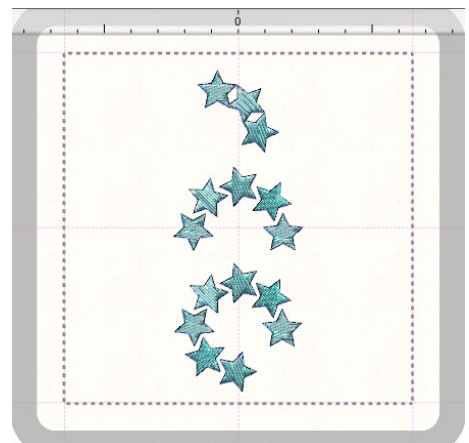
#### A little Math to create some arcs

You may wish to create an arc with your object. The most precise way is with some math. To create the following arcs, do the math and then type the answer into the End Angle box. Enter and you will get the appropriate arc.

$\frac{1}{2}$  circle: Start Angle + 180 = End Angle

$\frac{1}{4}$  circle: Start Angle + 90 = End Angle

$\frac{3}{4}$  circle: Start Angle + 270 = End Angle



## Rectangular Arrays

### Tool Options

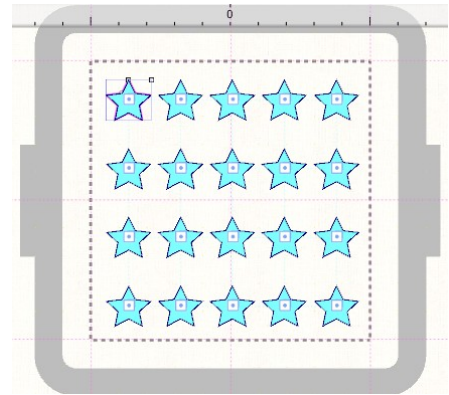
**Horizontal Copies** – number of objects across the hoop

**Vertical Copies** – number of objects down the hoop

**Horizontal Spacing** – distance between two rows of objects

**Vertical Spacing** – distance between two columns of objects

**Clone Objects if Possible** – allows you to change the shape of one object with the edit shape nodes tool and all of the other objects will change



### Other Tools - Kaleidoscope

Each object has 3 control handles.

**Square** – when highlighted, click and drag this handle to move objects

**Arrow** – click on this arrow to rotate every other object by 90°

**Mirror (Open Book)** – click this tool and mirror every other object around a vertical axis



### Personal Gift Idea

Use a persons or couples initials to make wonderful bedding or toweling for housewarming or wedding gifts.

The Circular Array is perfect for pillows, kitchen towels or wall hangings.

The Rectangular Array is great for borders. The Kaleidoscope tools help you make intricate designs easily. Use an endless or continuous hoop to place borders precisely. Make sure to use the proper hoop size when creating the border.

