Name: _____   Date: _____

Section 10.1 Math Link

This worksheet will help you with the Math Link on page 385.

Include this sheet with your final artwork.

1. a) On a piece of scrap paper, draw a circle that has a 20 cm diameter. Mark the centre of your circle.
   b) Draw at least four lines from the centre out to points on the circle. These are radii of the circle.
   c) Connect the radii with lines that cross from one side of the circle to the other. These are chords. Use at least four chords and create more than two inscribed angles. When two chords come together and meet at the arc of a circle, they form an inscribed angle.

2. a) Use what you have done to create your personal piece of art, first on the scrap paper. Change the lines as you wish so that it is your own unique piece of art.
   b) On another piece of paper, create your personal piece of art using these central angles, inscribed angles, chords, radii, and line segments. Colour in your work.
   c) Describe how the angles and line segments in your design are related. Measure all of your angles and list these in the chart below, following the example in the first row.

Angle Type	Measurement	Lines Involved
Central	60°	Two radii