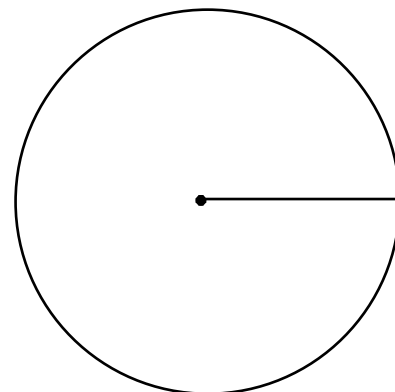# MathFLIX CHALLENGE
Circle Graphs

Follow the directions and then complete the table.

Part I

1. The circle on the right has one radius. Make another radius in this circle to construct a 90º angle. Color this section of the circle yellow.

2. Make another radius in this circle to construct a 180º angle. Color this section of the circle red.

3. Bisect the angle of the remaining uncolored section of the circle with another radius. What is the measure of the angle for each of these new sections? Color one section green.

4. Bisect the angle of the remaining uncolored section of the circle with another radius. What is the measure of the angle for each of those new sections? Color one section orange.

5. Same as number 4, only color one section purple.

6. How many more times could you bisect the uncolored sections of the circle?

Circle Graph

Color of section	Angle Measure	Estimated % of Circle	Estimated Fraction
red	180º	50	1/2
yellow	90º	25	_____
green	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Part II

Gather data you can use to create your own circle graph. Ask 8 different people their favorite ice cream flavors (or pizza toppings, etc.), then graph your findings on the circle. (Remember that with 8 people, each person represents 45º).

Flavors	# Who Like It	Angle Measure	Color
vanilla	_____	_____	_____
chocolate	_____	_____	_____
strawberry	_____	_____	_____
other	_____	_____	_____