Applications of Arc Length and Sectors

A sector of a circle is a region of the circle bounded by a central angle and its intercepted arc.

A proportional relationship exists between the central angle bounding the sector and the complete circle. Pose have previously observed a relation that could be used to predict the arc length of a circle of radius 1 given a central angle value in degrees of rotation. The function you discovered for arc length of a circle of radius 1 is given below.

$$(\text{Arc Length}) = \frac{\pi}{180}(\text{degrees of rotation})$$

Another way to look at arc length is to think about it as some relationships. As you collected data for your table in the previous activity, you discovered that arc length is simply a portion of the circle's circumference and can be expressed in terms of π. This relationship can be summarized proportionally for a circle of any given radius r, as follows:

$$\frac{\text{Arc Length}}{2\pi r} = \frac{\text{Degrees of Rotation}}{360}$$

Similarly, you discovered a function that could be used to predict the area swept by a central angle or an angle of rotation of a circle of radius 1.

$$(\text{Area Swept by Angle of Rotation}) = \frac{\pi}{360}(\text{degrees of rotation})$$

As you collected data for your table in the previous activity, you discovered that, the arc length area of a sector (or area swept) is proportional to the circle's area and can be expressed in terms of π. This relationship is summarized proportionally for a circle of any given radius, r, below.

$$\frac{\text{Area Swept}}{\pi r^2} = \frac{\text{Degrees of Rotation}}{360}$$

Example: (Round to the nearest tenth as necessary.)

1. If the radius of the above circles are both equal to 12 inches, find the arc length and area of each sector.

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