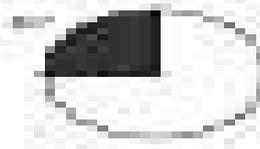


Applications of Arc Lengths and Sectors

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



As you have seen, the arc length s and the area A of a sector depend on the central angle θ (measured in radians) and the radius r of the circle. Thus, these quantities are related. In this section, we will see how the arc length s and the area A of a sector of a circle of radius r are related to the central angle θ in radians.

$$\text{Arc Length} = \frac{\theta}{2\pi} (\text{circumference of circle})$$

Another way to find arc length is to think about part of a circle's circumference. As you recalled from the previous activity, the circumference of a circle of radius r is $2\pi r$. This relationship can be generalized to give the arc length s of a sector of any circle with radius r and central angle θ in radians:

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

Similarly, you can generalize the formula that gives the area of a sector of a circle of radius r and central angle θ in radians to give the area A of a sector of any circle of radius r :

$$\frac{\text{Area of Sector}}{\text{Area of Circle}} = \frac{\theta}{2\pi} \quad (\text{degrees of arc})$$

As you recalled from the previous activity, the area of a circle of radius r is πr^2 . This relationship can be generalized to give the area A of a sector of any circle of radius r and central angle θ in radians:

$$\frac{\text{Area of Sector}}{\pi r^2} = \frac{\text{Degrees of Arc}}{360}$$

Example: (Based on the example from the previous activity.)

1. In this problem, the radius of the circle and the angle θ are given. Use the formulas to find the arc length and area of each sector.

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Cedarville University (Cedarville, Ohio)

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