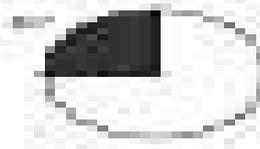


Applications of Arc Lengths and Sectors

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 are both proportional to the central angle θ . Knowing the radius r and the central angle θ , you have previously determined that the arc length s is proportional to the central angle θ (measured in radians) and the area A is proportional to the square of the radius r and the central angle θ .

$$\text{Arc Length} = \frac{\theta}{360} \text{ (circumference of circle)}$$

Another way to determine length is to think about unit or other subdivisions. As you recalled from the previous activity, the arc length s is simply a fraction of the circle's circumference and can be expressed in terms of r . This relationship can be summarized as follows in terms of any given radius, r , below:

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

Similarly, you determined a fraction that could be used to predict the area A of a sector of a circle of radius r and central angle θ .

$$\frac{\text{Area of Sector}}{\text{Area of Circle}} = \frac{\theta}{360} \text{ (circumference of circle)}$$

As you recalled from the previous activity, you determined that the arc length s and the area A of a sector are both proportional to the central angle θ and can be expressed in terms of r . This relationship is summarized as follows in terms of any given radius, r , below:

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

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

1. If the radius of a circle is 4 units and the central angle is 60° , find the arc length and area of the sector.

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