

Applications of Area, Length and Distance

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



As proportional relationships exist between the central angle bounding the sector and the complete circle, these have previously determined relationships that could be used to predict that arc length of a circle is directly proportional to (given a central angle) values or distances of rotation. This function gives the measure for arc length of a circle of radius r in given angles.

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

Another way to find given length is to think about unit or sector relationships. As you collected that the given values in this previous activity, you determined that arc length is directly proportional to the circle's circumference and can be expressed in terms of π . This relationship can be summarized proportionally as circle of any given radius, r , is written:

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

Similarly, you determined a function that could be used to predict the arc length by a central angle in a circle of radius of given or radius r .

$$\text{Arc Length for Length of Rotation} = \frac{\theta}{360} (\text{circumference of rotation})$$

As you collected that for given radius in this previous activity, you determined that, the arc length, area of a circle (or area swept) is proportional to the circle's circumference and can be expressed in terms of π . This relationship is summarized proportionally for a circle of any given radius, r is written:

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

Example: (Based on previous activity and necessary.)

1. If the radius of a circle is 10 units and the angle is 60 degrees, find the arc length and area of the sector.

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A Loxley



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