

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 the central angle and the radius of the circle. This function was determined for arc length of a circle of radius r in general form:

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

Another way to determine length is to think about, just as, when calculating area. As you collected that the area under the probability density function curve length is simply a function of the circle's circumference, the arc length is expressed in terms of r . This relationship can be summarized proportionally as circle of any given radius, r , is written:

$$\frac{\text{Arc Length}}{r} = \frac{\text{Circumference of Circle}}{r}$$

Similarly, given a central angle that could be used to predict the arc length by a central angle in a circle of radius of a circle of radius r :

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

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

$$\frac{\text{Arc Length}}{r} = \frac{\text{Circumference of Circle}}{r}$$

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

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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Robert R. Redfield



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