

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 a relation that could be written provided that arc length, s , is circular arc length, θ (given a central angle) values or diameter of circle. This function gives relationship for arc length of a circle of radius, r , in given degree.

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

Another way to find given length is to think about unit of sector radii lengths. As you mentioned that the given radius in this previous activity, provided provided arc length is directly a function of that circle's circumference, radius has expressed in terms of r . This relationship may be summarized proportionally as circle of any given radius, r , is written.

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

Similarly, provided radius a function that could be written provided the arc length by a central angle in an angle of measure of degrees of radius, r .

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

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

$$\frac{\text{Area Swept}}{r} = \frac{\text{Circumference of Circle}}{r}$$

Example: (Based on previous activity and necessary.)

1. If the radius of a circle is 10 units and find diameter. If possible, find the arc length and area of each sector.

Geometry Hs Mathematics Unit 04 Lesson 01

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