

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 gives the arc length of a circle of radius r in terms of θ .

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

Another way to find arc length is to think about just a sector of a circle. As you collected data for your table in the previous activity, you discovered that arc length is directly proportional to the circle's circumference and can be expressed in terms of r . This relationship can be summarized proportionally as circle of any given radius, r , is constant.

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

Similarly, you discovered a function that could be used to predict the area swept by a central angle in a circle of radius r in terms of θ .

$$\text{Area Swept by Angle of Rotation} = \frac{\theta}{360} (\text{area of circle})$$

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

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

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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