Geometry

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**Circumference and Arc Length of a circle**

**I. Circumference.**

* The circumference of a circle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$C= πd$

*Or*

$$C=2πr$$

* *Example 1:*

**Find the indicated Measure**

a. Circumference of a circle with radius 9 centimeters

b. Radius of a circle with circumference 26 meters.

Solution:

|  |  |
| --- | --- |
| a. | b. |

**II. Arc Length**

* Arc Length is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



* Two kinds of arc length.

|  |  |
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| **Degree**By Central Angle: Central Angle =  | **Distance (inches, feet, centimeters, etc.)**By Proportion: = |

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| Example 1:  |
| Example 2:  |
| Example 3: $Find the radius of circle G, if the \hat{HJK }has an arc length of 27.5 ft$ |