~Circumference and Arc Length of Circles Notes~

**UNIT QUESTION: What special properties are found with the parts of a circle?**

MMC9-12.G.C.1-5,G.GMD.1-3

**Today’s Question: How do we find the arc length of a sector?**

MMC9-12.G.C.5

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| --- | --- |
| 2 types of Answers | |
| **Rounded** | **Exact** |
| * Type the Pi button on your calculator * Toggle your answer * Round | * Type the Pi button on your calculator * Pi will be in your answer * TI 36X Pro gives exact answers |

* Circumference:
* Formulas:

|  |  |
| --- | --- |
| **Find the EXACT circumference** | |
| 1. r = 14 feet | 1. d = 15 miles |

|  |  |
| --- | --- |
| **Find the circumference. Round to the nearest tenth.** | |
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| 1. **A circular flower garden has a radius of 3 feet. Find the circumference of the garden to the nearest hundredths.** |

* Arc Length:
* Formula:

|  |  |
| --- | --- |
| 1. Find the Arc Length. Round to the nearest hundredths |  |
| 1. Find the exact Arc Length. |  |
| 1. Find the radius. Round to the nearest hundredth. |  |
| 1. Find the circumference. Round to the nearest hundredth. |  |
| 1. Find the radius of the unshaded region. Round to the nearest tenth. |  |