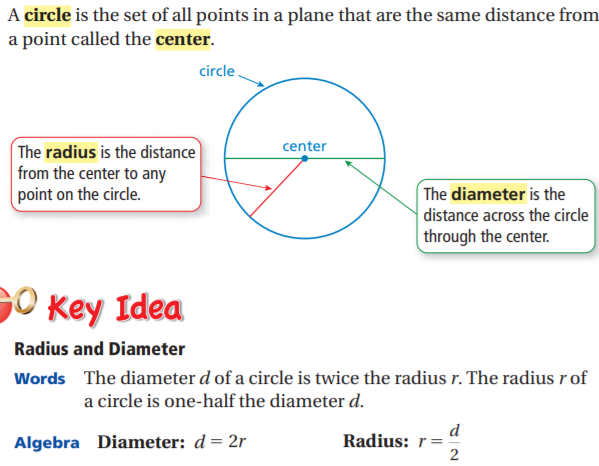
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_

**8.1A Circles and Circumference\_Classwork**

*Objective: find radius and diameter, find the circumferences of circles*

*CC.SS.7.G.4; MP8 Look for and Express Regularity in Repeated Reasoning.* HW: 8.1A page 321 #1-11 ALL

A circle is the set of all points in a plane that are the same distance from a point called the center.



|  |  |
| --- | --- |
| 1. Finding a Radius and a Diameter: The diameter of a circle is 20 feet. Find the radius. | 1. Finding a Radius and a Diameter: The radius of a circle is 7 meters. Find the diameter. |
|  |  |
| **CIRCUMFERENCE of A CIRCLE**  The circumference C of a circle is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is another word for perimeter.  **FORMULA**  Circumference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 1. Finding Circumferences of Circles: Find the circumference of the flying disc with a radius of 5 in. Use 3.14 for | 1. Finding Circumferences of Circles: Find the circumference of the watch face with a diameter of 28 mm. Use 3.14 for . |
| 1. Consider the circles A, B, C, and D.      1. Without calculating, which circle has the greatest circumference? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Without calculating, which circle has the least circumference? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 1. Estimate the diameter given a circumference of 28.26 meters. | 1. Estimate the diameter given a circumference of 12.56 inches. |
| 1. Estimate the radius given a circumference of 28.26 meters. | 1. Estimate the radius given a circumference of 12.56 inches. |
| 1. A circular sinkhole has a circumference of 75.36 meters. A week later, it has a circumference of 150.42 meters. 2. Estimate the diameter of the sinkhole each week. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. How many times greater is the diameter of the sinkhole now compared to the previous week?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**PRACTICE PROBLEMS:** draw out the diagram, show your work, round your answer to the nearest tenth, use 3.14 for , and include unit to the answer

|  |  |
| --- | --- |
| 1. Mr. Sam is putting a trim around the edge of a circular merry-go-around that has a diameter of 15 feet. How much trim does he needs to buy? | 1. Find the circumference of a pizza with a radius of 6 inches. |
| 1. Find the circumference | 1. Find the circumference |

Resources:

<https://www.lcps.org/cms/lib4/VA01000195/Centricity/Domain/10878/AreaCircNotesandHW.pdf>