

# Unit 2: Rationals and Irrationals Day 5

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Math 9 Principles

**2-5:** *I can evaluate areas and circumferences of circles using radius, diameter, and  $\pi$ .*

*Complete each row of this chart for circles without using a calculator.*

*No decimals, fractions only.*

#	Radius	Diameter	Circumference	Area
1)	5			
2)	$\frac{2}{5}$			
3)		14		
4)		0.6		
5)		$\frac{1}{4}$		
6)			$18\pi$	
7)			$\frac{2\pi}{3}$	
8)				$16\pi$
9)				$36\pi$
10)				$\frac{9\pi}{16}$
11)			$\frac{9\pi}{2}$	
12)		$\frac{5}{4}$		

- 13) What is the area of a pizza with a diameter of 12 inches?
- 14) What is the area of a circle with a circumference of  $50\pi$ ?
- 15) A Ferris wheel has a radius of 60 feet. What is its circumference?
- 16) What is the diameter and circumference of a plate that has an area of  $64\pi$ ?
- 17) The spray from a spinning lawn sprinkler makes a circle with a 32' radius. What is the circumference and area of the circle?
- 18) What is the area of a CD with a radius of  $2\frac{1}{4}$  "?
- 19) Gears on a bicycle are just circles in shape. One gear has a diameter of 6", and a smaller one has a diameter of 3". How much bigger is the circumference of the larger one compared to the smaller one?