

MasterMath

Name _____
Date _____

π and the Circumference of a Circle

$\pi = 3.14$; $C = \pi d$; $C = 2\pi r$

1. Fill in the blanks

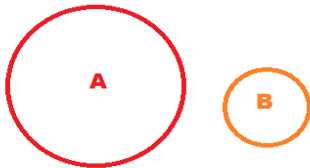
radius	diameter	Circumference
62 yards		
18 mm		
	11'	

radius	diameter	Circumference
	12"	
2'		
	10cm	

2. The diameter of the rear tire of this bike is 34". In low gear, you need to rotate the pedals 3 times to make the rear tire rotate 360°. How far will you travel in low gear each time you rotate the pedals?



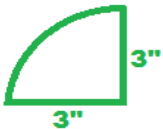
3. The Circumference of A is twice the Circumference of B. If the radius of A is 10", what is the radius of B?



4. What is the perimeter of this semi-circle?



5. The arch in the figure below is 1/4 of a circle. Can you determine the perimeter of the figure?



6. The smaller gear is powered by the larger gear. Which gear rotates faster? Why?

