

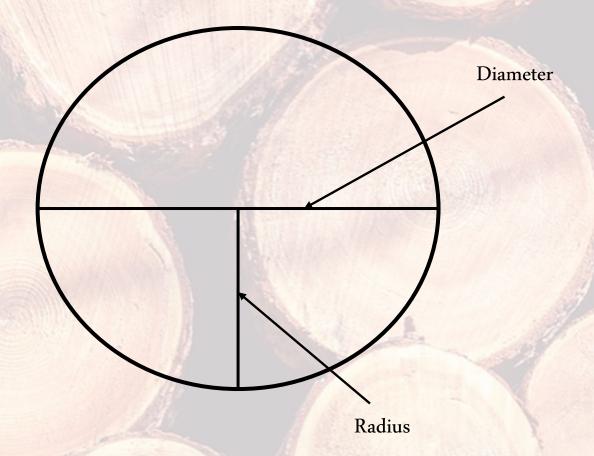




### Inquiry time

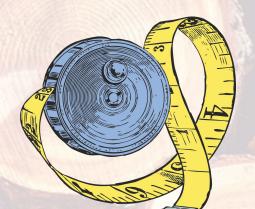
Find 5 different trees from around your school, a park, or your home. Use a measuring tape to find their circumference (the area around the tree).

Use your knowledde of parts of a circle to calculate the diameter & radius of the tree's trunk.



How to calculate circumference: Diameter  $\times \pi$  (3.14) also written as:  $d\pi$  or

2xRadius x n (3.14) also written as: 2rn



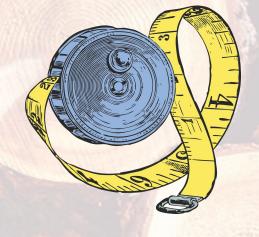
Radius



## Inquiry time

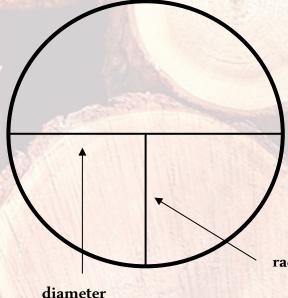
	A STATE OF THE STA
Tree #1	Leaf sketch
Species	
Circumference	
Diameter	
Radius	
Tree #2	
Species	Leaf sketch
Circumference	
Diameter	
Radius	
Naurus	
Tree #3	Leaf sketch
Species	
Circumference	
Diameter	
Radius	
Tree #4	
Species	Leaf sketch
Circumference	1. 11
Diameter	
Radius	
Rautus	
Tree #5	Leaf sketch
Species	
Circumference	
Diameter	





### Inquiry time

find the area of one of the world's largest tree trunks!



To find the area of circle, you need to follow the below equation:

Multiply pie (3.14) x the radius squared.  $A = \pi r^2$ 

radius

Learn about the 10 species of trees with the largest circumferences in the world. Choose one species you're most interested in and find it's trunk's area. You'll need to first find the radius of the tree before calculating the area.

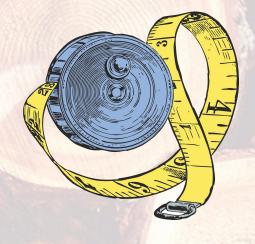
Use this link to guide your research

https://www.wondermondo.com/top-10-stoutest-trees-species-in-the-world/



Describe how you were able to calculate the area of the tree's trunk in your own words.





# Example & Challenge

Tree Example

Species Oak Tree

Circumference 75 inches

Diameter 23.9 inches

Radius 11.95 inches

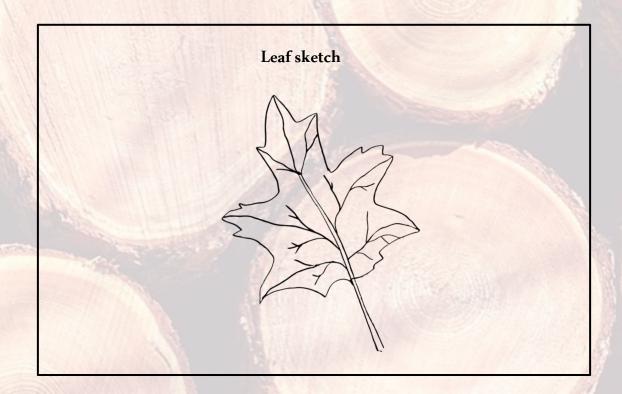
How to find diamter and radius from circumference

Finding diamter: Circumference + T

 $75 \div 3.14 = 23.9$ 

Finding radius: Diameter ÷ 2

 $23.9 \div 2 = 11.95$ 



#### How old are the trees you measured?

Some trees' ages can be calculated using only their circumferences. Do some research into calculating tree ages by circumferences and see if you can find their ages!