# Radius A品 $\pi T^{2}$ <br> Cineles，cincles <br>  <br> radlius ，diameter． <br> circumberrence \＆more．．． 

Diameter
近足初d

## cincles, cincles

CCSS.Math.Content.7.G.B. 4 Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

## CiRcLES, BiRCLES

## everywnere:

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## circumberence

## The distance around a circle.

## circumference

## ${ }^{00}$



A tool used to draw circles and arcs.



$$
3.14
$$

Pi is the circumference of a circle divided by its diameter.


## $A \cdot \pi \pi^{2}$




## The area of a circle is Pi multiplied by the radius squared.




$\qquad$

### 3.14

Because pi is the same for every circle, we can use it to determine the diameter if we know the circumference, or vice versa.


The diameter of a circle is 2 inches. What is the circle's circumference?

$$
C=3.14 \times 2
$$

Since we know the diameter is 2 inches, we can multiply 2 inches by pi (3.14) and get the circumference.

$$
C=6.28
$$

Therefore, the circumference of the circle is $\mathbf{6 . 2 8}$ inches.

## Now you try.....

I.The diameter of a circle is 16 inches. What is the circle's circumference?
2. The diameter of a circle is 12 cm . What is the circle's circumference?
3.The diameter of a circle is 9 inches. What is the circle's circumference?


Name: $\qquad$

## A品距 ${ }^{2}$

If you know the radius of a circle, you can find the area.
A circle has a radius of 2 cm . What is the area?

2. The radius of a circle is 15 inches. What is the area of the circle?
3.A circle has a radius of 21 cm . What is the area of the circle?


After students have practiced using a compass and feel comfortable drawing circles give them a blank piece of paper. Have your students draw a bunch of circles all over the page. It's ok if they overlap! That's what makes the page look really neat at the end!
Once the students are happy with their circles, they can begin coloring. Using crayons, they should color each section a different color, making sure that no two touching sections are the same color. ( I usually draw a few overlaping circles and color them to model this!)
Here's some examples....



## CiRcLes, ciRcLes

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