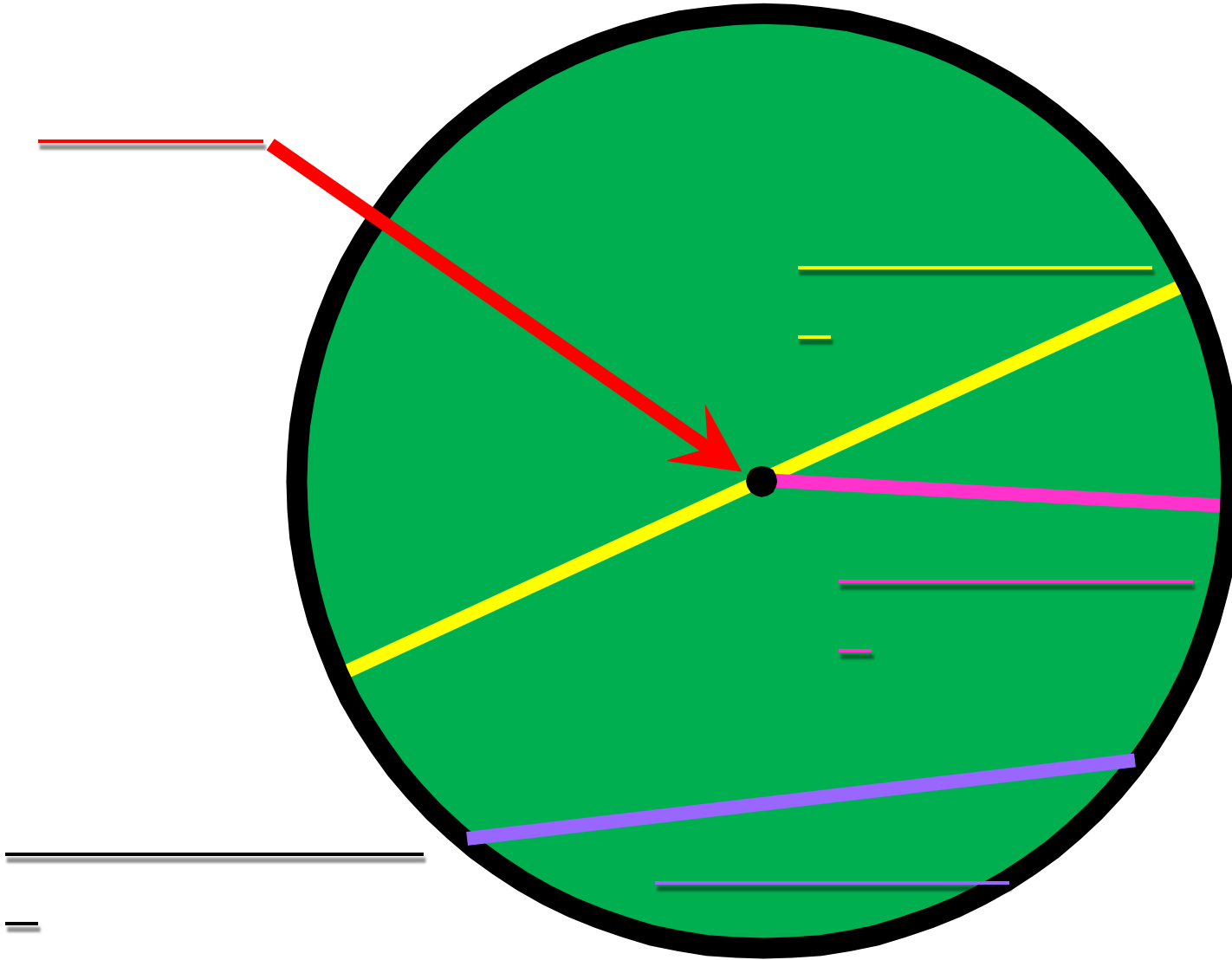


Geometry

Circumference of a Circle

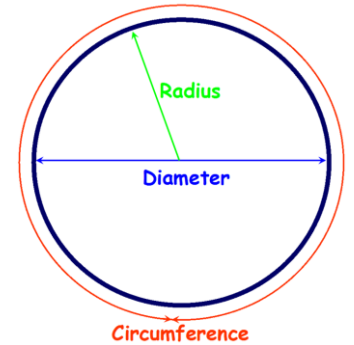
Parts of a circle



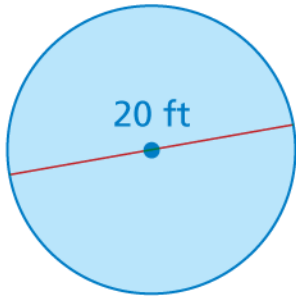
The **circumference** is the **perimeter** of a circle.

Finding a radius and a diameter

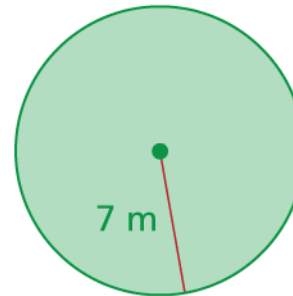
What is the relationship between a radius and a diameter of a circle?



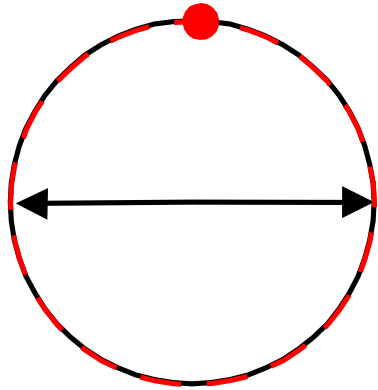
a. The diameter of a circle is 20 feet. Find the radius.



b. The radius of a circle is 7 meters. Find the diameter.



The **circumference** is the distance around a circle.



What is the connection between the diameter and the circumference?

Circumference is equal to roughly _____
_____ diameter

Ancient mathematicians found out that the circumference is about a little more than 3 times the diameter.

They found out that that it's more like 3.14.....and so on

Instead of using this long ongoing number they have rounded it to 3.14

This is otherwise known as

π is usually
rounded to

π



or

So, instead of saying

Circumference =

We instead say

Circumference =

Formula for circumference

The Circumference Formulas 2

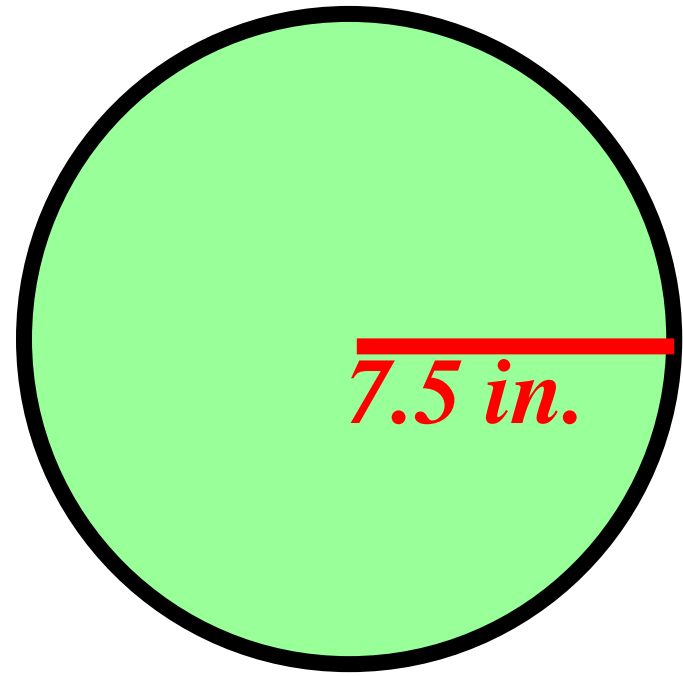
Pi is also known as the ratio between the circumference of a circle and its diameter.



PRACTICE

Find the circumference of the circle.

- Write the formula
- Plug-in the given information
- Solve



Approximate Form

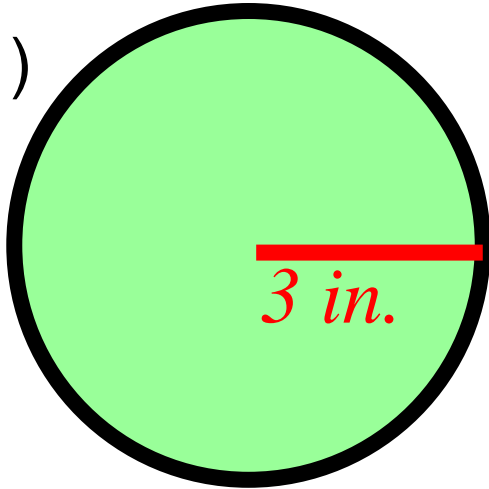
Exact Form

PRACTICE

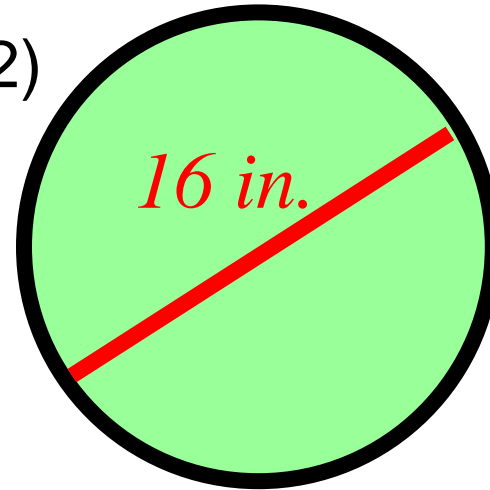
- Write the formula
- Plug-in the given information
- Solve

Find the circumference of the circle in which $\pi = 3.14$.

1)



2)



PRACTICE

Find the circumference of the circle

- Write the formula
- Plug-in the given information
- Solve



3) Find the circumference of the flying disc. Use 3.14 for π .



4) Find the circumference of the watch face. Use $\frac{22}{7}$ for π .

PRACTICE

Find the circumference of the circle

- Write the formula
- Plug-in the given information
- Solve



5) Find the circumference of the flying disc. Use 3.14 for π .

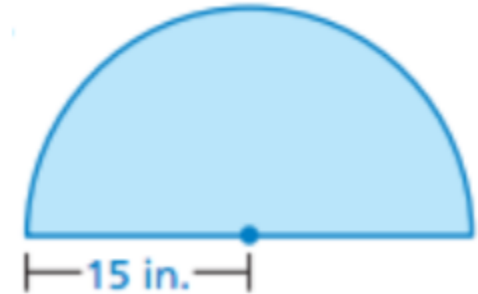


6) Find the circumference of the watch face. Use $\frac{22}{7}$ for π .

Finding the Perimeter of a Semicircular Region

A **semicircle** is one-half of a circle. Find the perimeter of the semicircular region.

- Find the circumference
- Find half the circumference
- Add the straight side



Finding the Perimeter of a Semicircular Region

A **semicircle** is one-half of a circle. Find the perimeter of the semicircular region.

- Find the circumference
- Find half the circumference
- Add the straight side

