

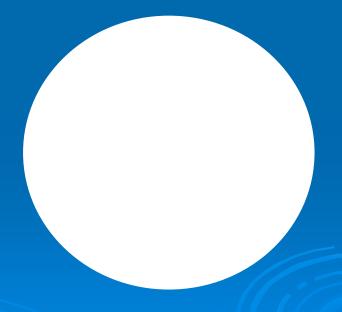
Circle

Area of a Circle
Area = π r²

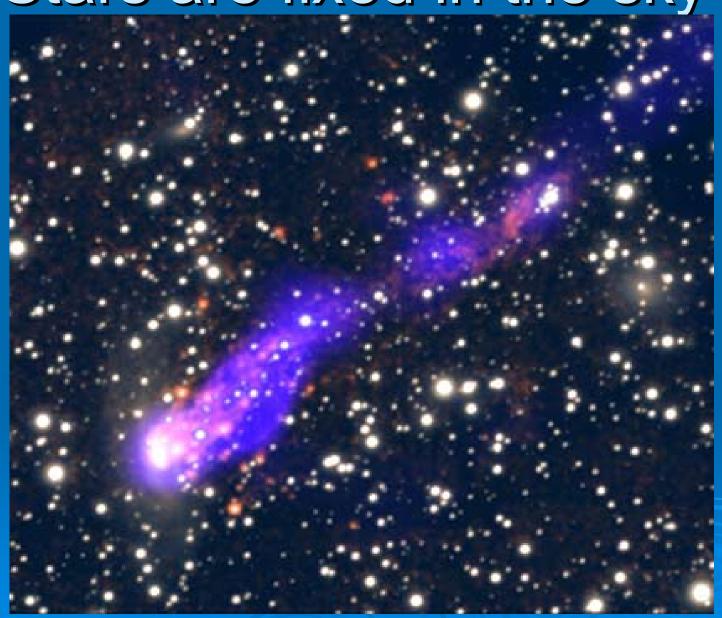
Circle

Circle- is a line forming a closed loop, and every point on which is fixed distance from a center point.



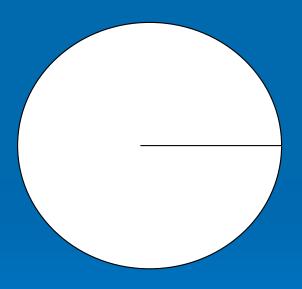


Stars are fixed in the sky



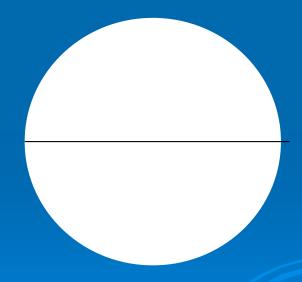
Radius

Radius- is the distance from the center to any point on the circle.



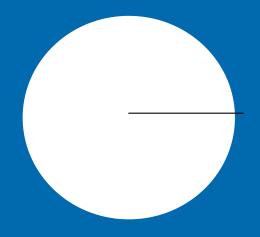
Diameter

> Diameter- the distance across the circle

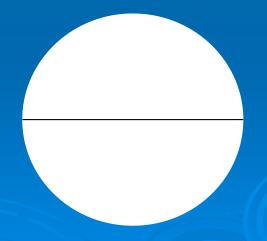


Radius vs Diameter

> Radius is $r = \frac{1}{2}$ the diameter



> Diameter is d = 2r



Pi (Pie)

Pi comes from the Greek letter P which is written as π. Pi written as a decimal value equals 3. 142 or as an improper fraction 22/7. Pi is an approximation.

> Pi = 3.141592653589793......

Area of a Circle

 \triangleright The formula for Area of a circle = π r²

> Where r is the radius of the circle

Where (pi) π is approximately 3.142 or 22/7

Using the Area of a circle formula

- > Area = π r²
- > Radius = 4 mm
- \rightarrow Area = (3.14) (4)²
- \triangleright Area = (3.14) (16)
- > Area = 50.24 mm²

Practice

> Area = π r²

> 1. Radius = 8 inches

> 2. Radius = 5 meters

> 3. Radius = 7 feet

Practice

- What if you are asked to find the area of a circle and you are given the diameter
- > 16 m?