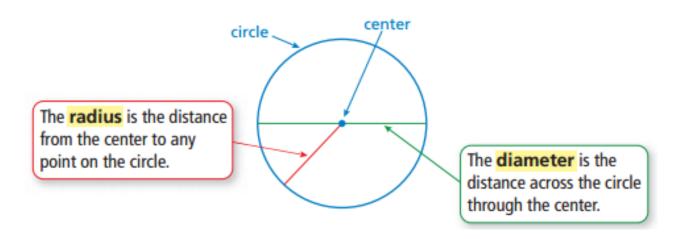
Circles

Circle: the set of all points in a plane that are the same distance from a point called the <u>center</u>.

Radius: the distance from the center to any point on the circle.

Diameter: the distance across the circle through the center.

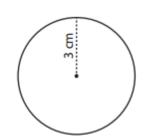


Area of Circle: the space that is taken up inside a figure.

$$A = \pi r^2$$

$$Area = \pi \times radius^2$$

Example 1:



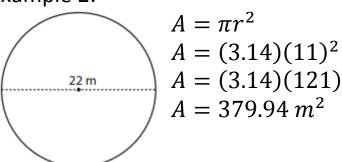
$$A = \pi r^{2}$$

$$A = (3.14)(3)^{2}$$

$$A = (3.14)(9)$$

$$A = 28.26cm^{2}$$

Example 2:



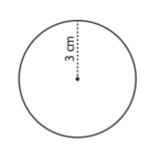
<u>Circumference of Circle:</u> the distance around a circle.

$$C = \pi d$$

or

$$C = 2\pi r$$

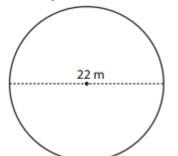
Example 1:



$$C = \pi d$$

 $C = (3.14)(6)$
 $C = 18.84 cm$

Example 2:



$$C = \pi d$$

 $C = (3.14)(22)$
 $C = 69.08 m$