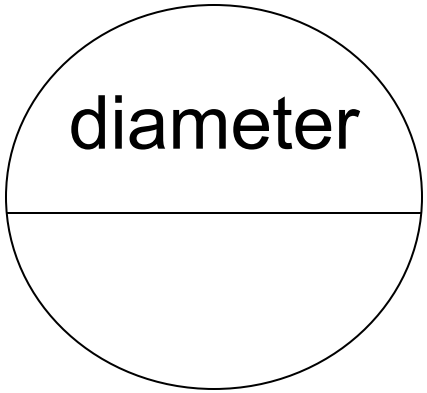
# Area, Circumference & Volume

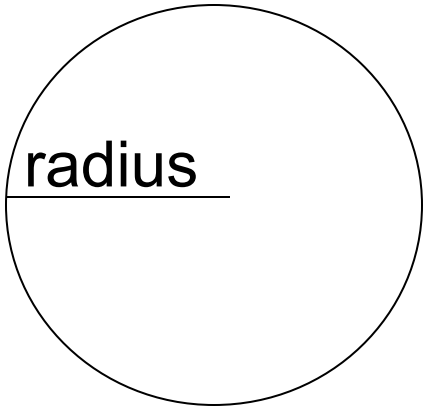
**Objective:**
**TLW**

a) Apply the given formula to find the area of a circle, the circumference of a circle, or the volume of a rectangular solid.

# Radius & Diameter

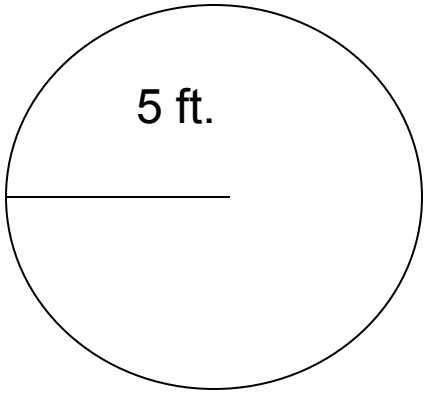
Radius (r):  the line **HALFWAY** through the circle



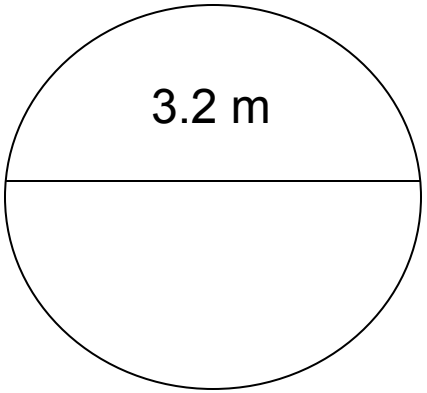

Diameter (d): the line to the **END** of the circle

# Radius & Diameter



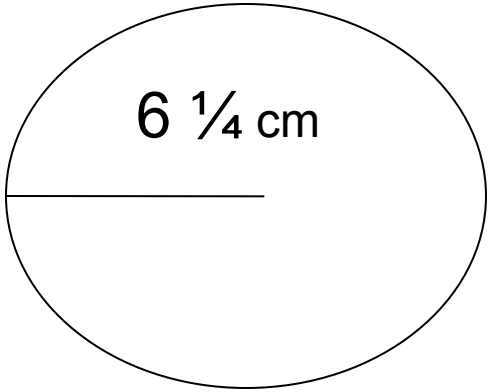

r =_____

d= ____



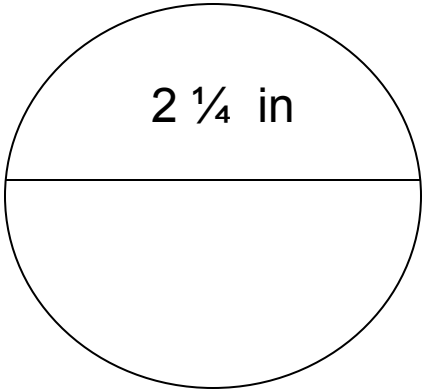

r =_____

d= ____




r =_____

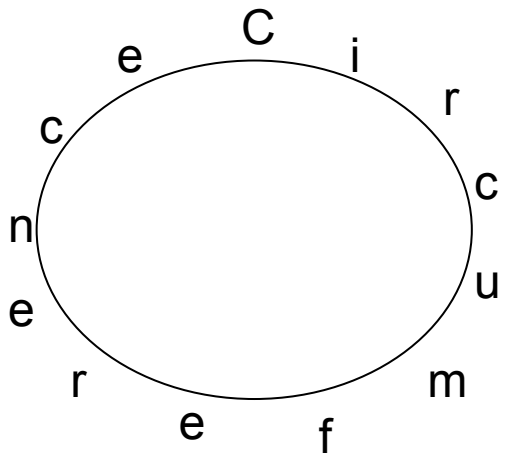
d= ____



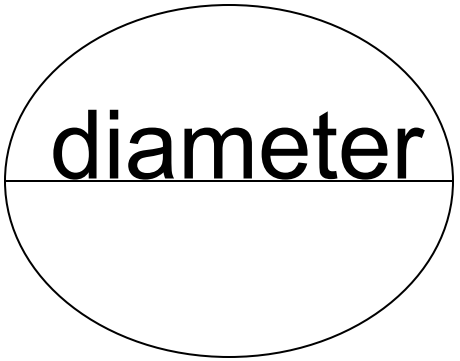

r =_____

d= ____

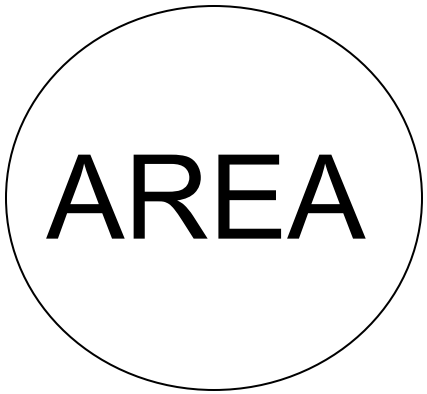
**CIRCUMFERENCE (C) :** the measurement **AROUND** the circle.



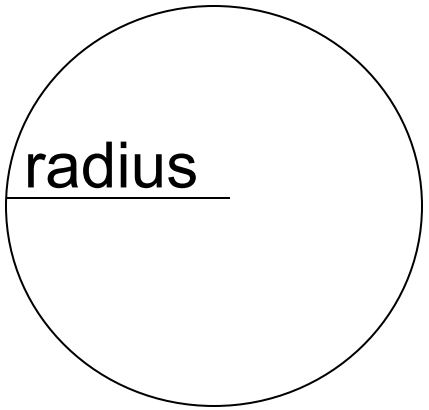

$C = \pi d$



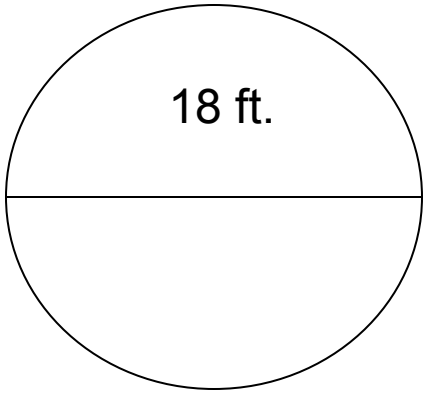

- AREA (A): the measurement INSIDE the circle.



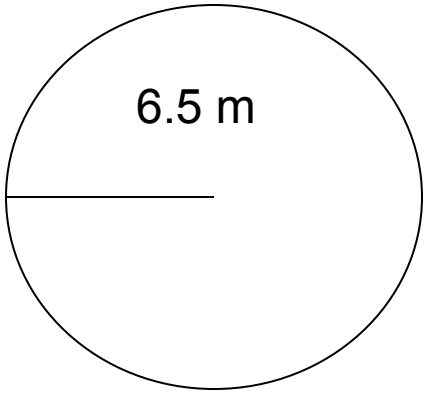

$A = \pi r^2$



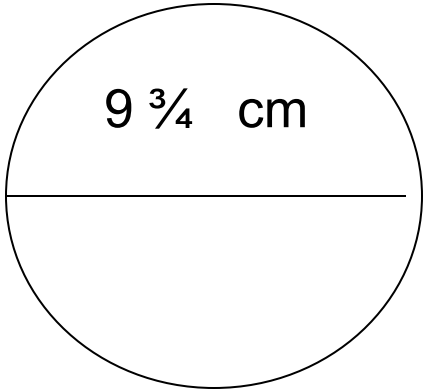
# Area & Circumference



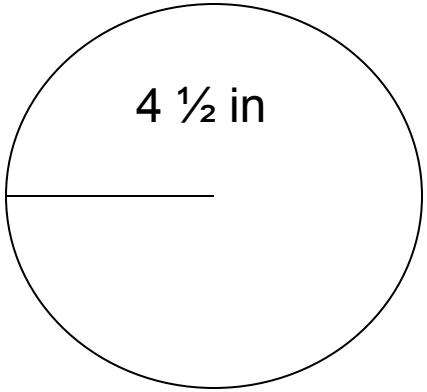

r =____
d =_____
C= ____
A= ____




r =____
d =_____
C= ____
A= ____

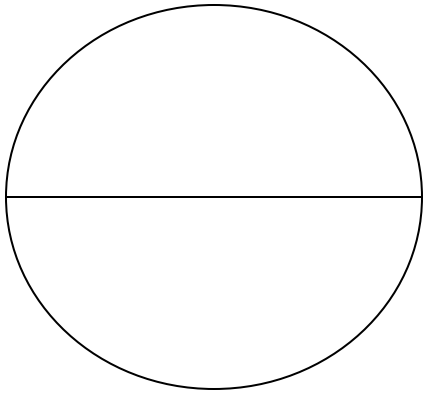



r =____
d =_____
C= ____
A= ____




r =____
d =_____
C= ____
A= ____

# Area & Circumference

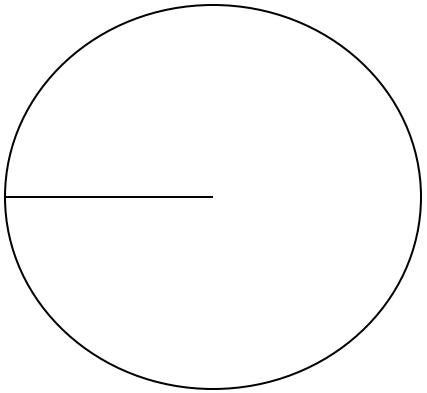


r =____

d =__5cm__

C= ____

A= ____

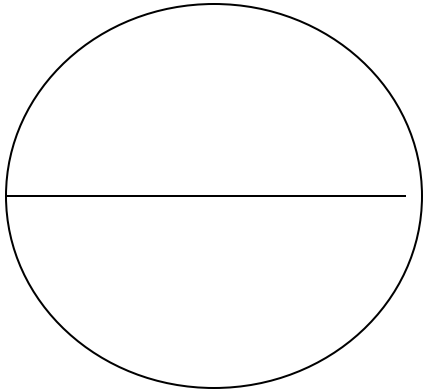


r =____

d =_4.2ft__

C= ____

A= ____

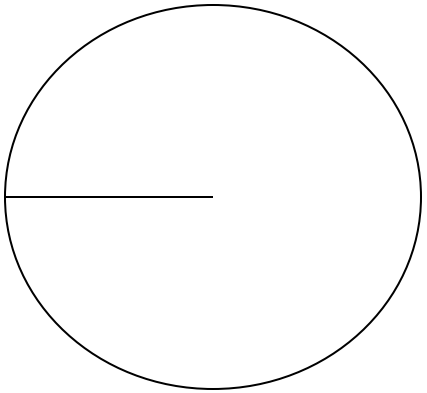


r =_10m___

d =_____

C= ____

A= ____



r =_6.8in___

d =_____

C= ____

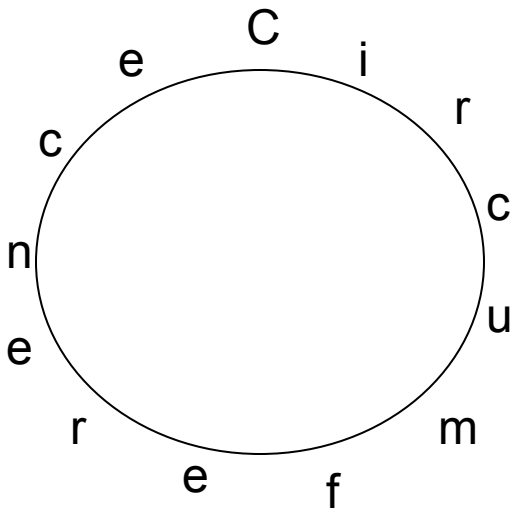
A= ____

# Area & Circumference

AREA

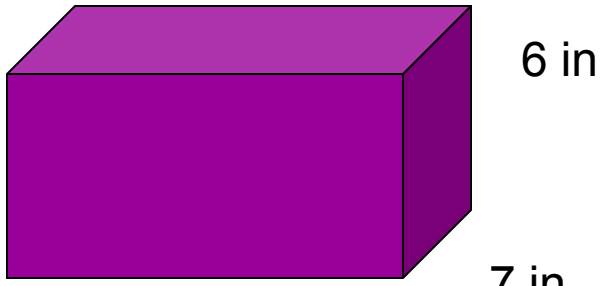
a. Around a circle
b. Inside a circle
c. Line halfway through a circle
d. Line to the end of the circle

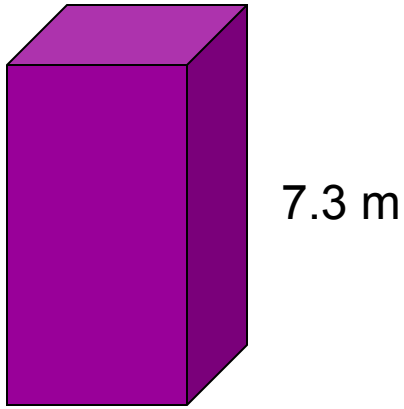
radius

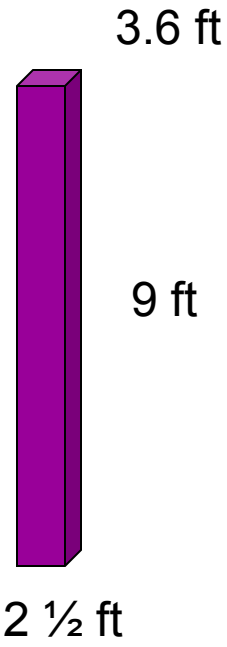



diameter

# Volume




V = ____ in³ V = ____ m³ V = ____ ft³

The AMOUNT of SPACE that an object takes up.

$V = L \cdot W \cdot H$

V = Length · Width · Height