

Rectangle and Triangle

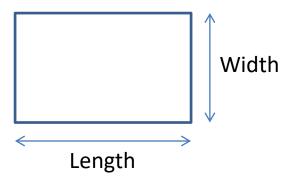
Area of Rectangle

To find the area of rectangle we multiply its Length and Width.

Area of Rectangle = L X W

Where,

L is the length of longer side of rectangle W is the length of smaller side of rectangle



Area of a Triangle

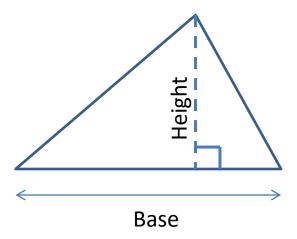
The area of the triangle is given by the formula mentioned below:

• Area of a Triangle =
$$\frac{(B \ x \ H)}{2}$$

Where,

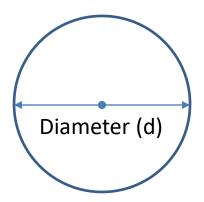
B is the Base of the Triangle.

H is the perpendicular Height of the Triangle



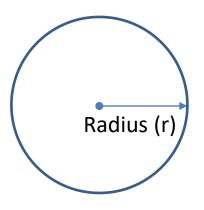


Circles



DIAMETER

The measure of the length of a straight line going across the circle and passing through its center.



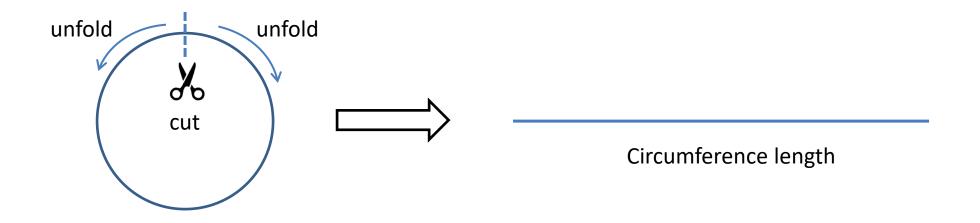
RADIUS

The measure of the distance from the center of a circle to its outside edge.

NOTE: The radius is always equal to ½ the diameter.



Calculate the Circumference of a Circle



Circumference of a Circle

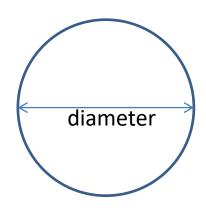
To find the circumference of a circle we multiply Pi times the diameter:

• Circumference of a Circle = $\pi * d$

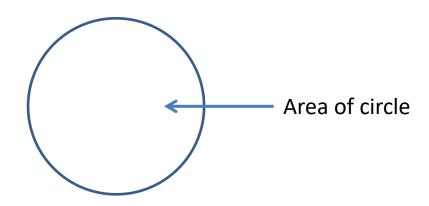
Where,

 π (sounds like 'pie') is 3.1416

d is the diameter of the cylinder







Area of a Circle

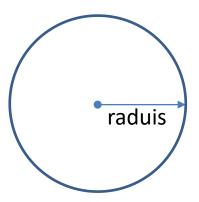
To find the area of a circle we multiply Pi times the radius squared

• Area of Circle = πr^2

Where,

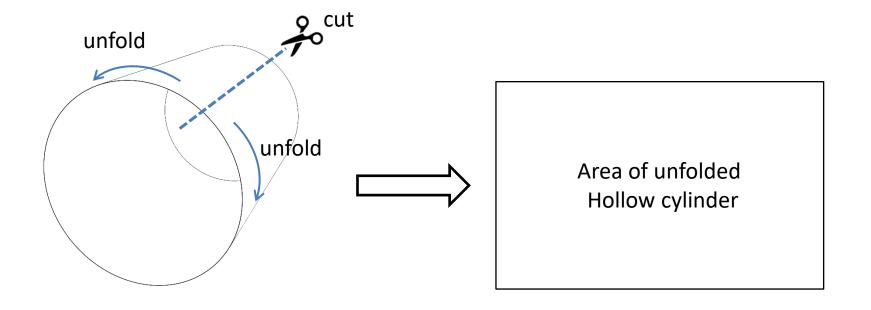
 $\boldsymbol{\pi}$ (sounds like 'pie') is 3.1416

r is the radius of the circle (radius is half the diameter)





Hollow Cylinder





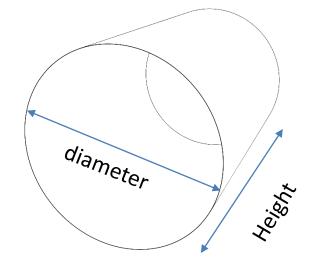
Hollow Cylinder

Area of a Hollow Cylinder (no caps)

The area of a hollow cylinder is given by the formula mentioned below:

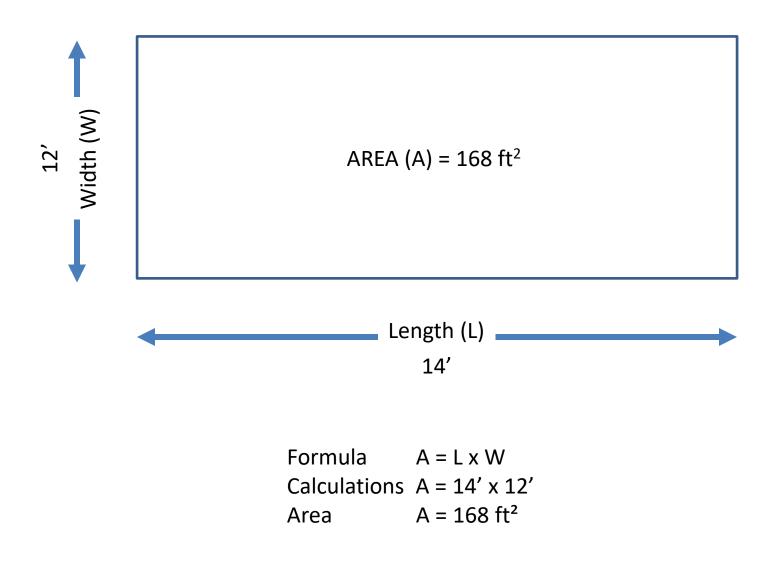
• Area of a Hollow Cylinder $=\pi*d*h$

Where, π (sounds like 'pie') is 3.1416 d is the diameter of the cylinder H is the height of the cylinder





Area of a Rectangle or Square

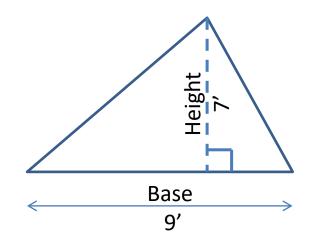




Area of a Triangle

Calculations =
$$\frac{(9' \times 7')}{2}$$

Area= 31.5 ft²





Area of a Circle

Area = πr^2

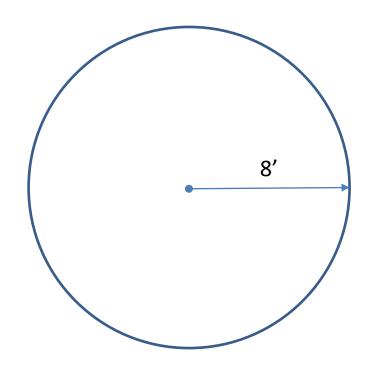
• Formula = πr^2

Where,

 π (sounds like 'pie') is 3.1416 r is the radius of the circle (radius is half the diameter) NOTE: To square a number: multiply it by itself

Calculations:

3.14 x (8')² 3.14 x 8' x 8' 200.96 ft²



Area: 200.96ft²



Area of a Cylinder (Hollow)

Area of a Hollow Cylinder (no caps) (i.e. pipe)

The area of a hollow cylinder is given by the formula mentioned below:

• Area of a Hollow Cylinder $=\pi*d*h$

Where,

 π (sounds like 'pie') is 3.1416

d is the diameter of the cylinder

h is the height of the cylinder

Calculations:

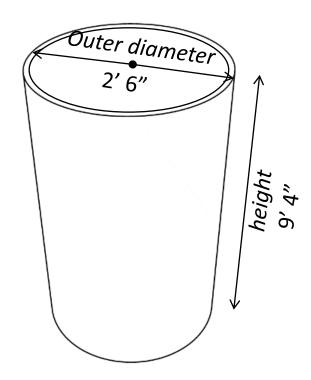
$$\pi * d * h$$

3.14 x 2' 6" x 9' 4"

3.14 x 2.5' x 9.33'

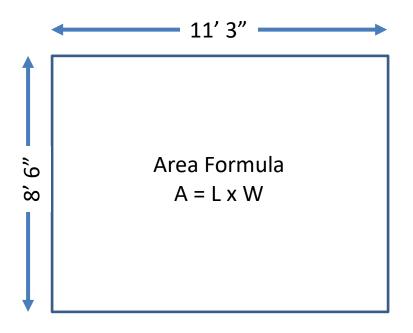
73.24 ft²

Area: 73.24 ft²



Area Practice Problems for a Rectangle 1 of 3

HINT: Convert measurements in Feet-inches to Feet in decimals first.

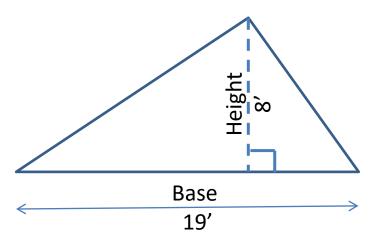


What is the area of this rectangle?

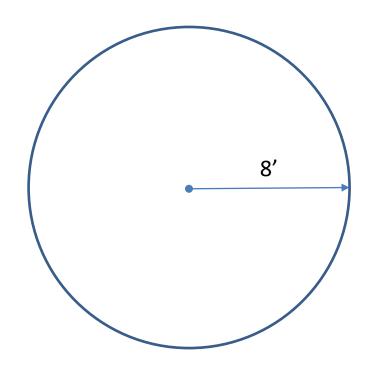
Area of a Triangle

practice problem

Area= ft²

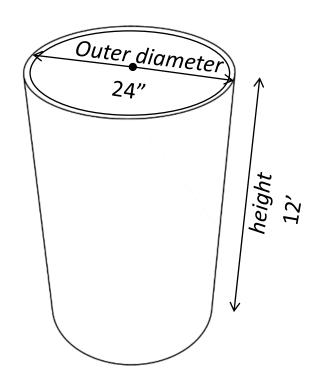


Area Practice Problems for a Circle



Area: _____

Area Practice Problems for a Cylinder (Hollow)



Area: ft²