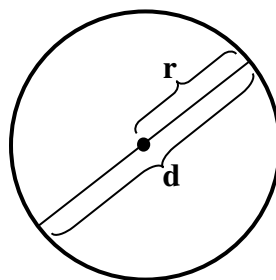


Geometry Note-Taking Guide

SECTION 1.2 – Circumference and Area of Circles

The distance from the center of a circle to its edge is called the _____, _____.

The distance across a circle, passing through the center, is called the _____, _____.



The perimeter of a circle is more specifically called the _____, _____.

The symbol π is called _____, which is approximately equal to (\approx) _____.

The formula for the circumference of a circle is _____.

The formula for the area of a circle is _____.

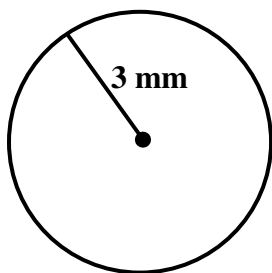
Ex 1:

Find the circumference and area of the circle for part a) and b).
Leave answer in terms of π .

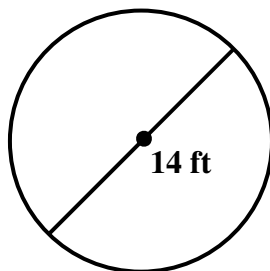
Find the area of the circle.

Round answer to the nearest tenth decimal.

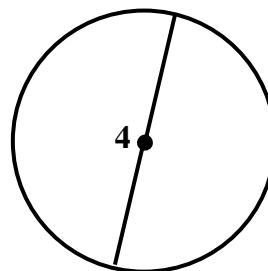
a)



b)



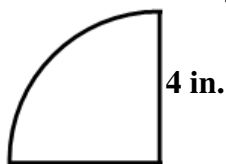
c)



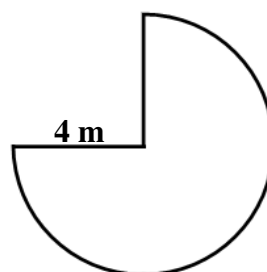
Ex 2:

Find the area of the figure. Leave answer in terms of π .

a)



b)



Ex 3:

- a) A rectangle has a width of 3 inches and its perimeter is 20 inches. What is the length of the rectangle?
- b) The area of a rectangle is 54 cm^2 and its base is 9 cm. What is the height of the rectangle?
- c) The area of a triangle is 84 square units and its height is 12 units. What is the length of the base of the triangle?
- d) The area of a triangle is 56 in.^2 and its base is 7 in.. What is the height of the triangle?
- e) The circumference of a circle is 14π yd. What is the diameter of the circle?
- f) The area of a circle is $81\pi \text{ m}^2$. What is the radius of the circle?

Ex 4:

- a) The perimeter of a rectangle is 20 inches and the width is 3 inches. What is the area of the rectangle?
- b) The length of a rectangle is two less than three times the width. Given the perimeter is 76 ft, find the dimensions (width and length) of the rectangle.