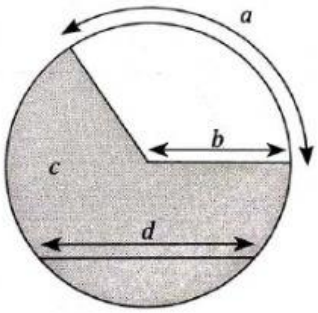
Revision

Chapter 5 – Circles

1. Match the parts of circle with their correct names based on the diagram below.

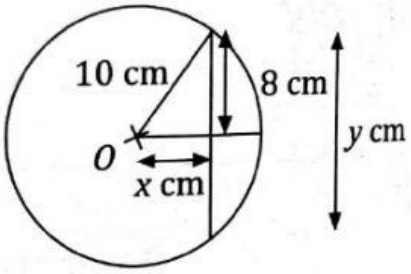


[4 marks]

Answer:

a	Circumference
	Arc
b	Chord
c	Radius
	Sector
d	Semicircle

2. O is the centre of circle. Find the values of x and y.



$x = \sqrt{\quad^2 - \quad^2}$

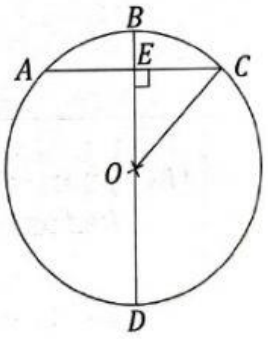
$= \sqrt{\quad}$

$= \square$ cm

$y = 2x \square$

$= \square$ cm

3. The following diagram shows a circle with centre O and radius 13cm. AEC and BEOD are straight lines.



Given AEC = 24cm, find the length, in cm of DOE.

$EC = \frac{1}{2} x$ ☐

$=$ ☐ cm

$EO = \sqrt{\square^2 - \square^2}$

$= \sqrt{\square}$

$=$ ☐ cm

DOE = OD + EO

$=$ ☐ + ☐

$=$ ☐ cm

4. Calculate the circumference of the circles.

Given radius = 9cm [π = 3.142]

Circumference = 2π r

= 2 x 3.142 x ☐

= ☐ cm

5. Calculate the area of the circle.

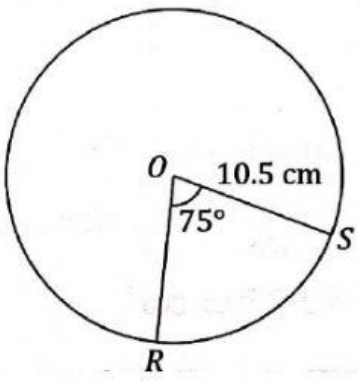
Given radius = 14 cm [π = $\frac{22}{7}$]

Area = πr^2

= — x ☐ ^{2}

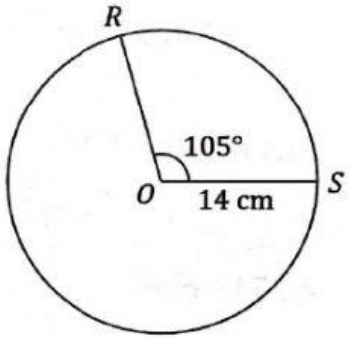
= ☐ cm^2

6. Calculate the length, in cm of the following arc RS. Give your answer correct to two decimal places. [π = $\frac{22}{7}$]



Arc RS = — x 2 x $\frac{22}{7}$ x ☐

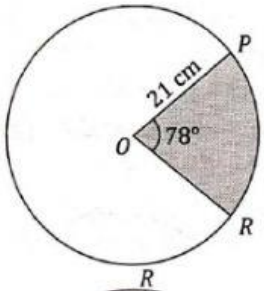
= ☐ cm



Arc RS = $- x\ 2\ x\ \frac{22}{7} x$ ☐

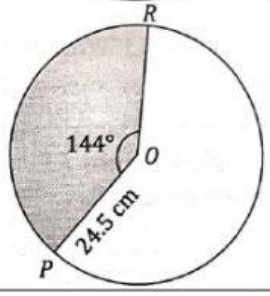
= ☐ cm

5. Calculate the area, in cm^2 of the following sector POR. Give your answer correct to one decimal place. [$\pi = \frac{22}{7}$]



Area sector POR = $- x\ \frac{22}{7} x$

= ☐ cm^2



Area sector POR = $- x\ \frac{22}{7} x$

= ☐ cm^2