



The National
Orthodox School
Shmaisani

Name:

worksheet (4) Math

Date:

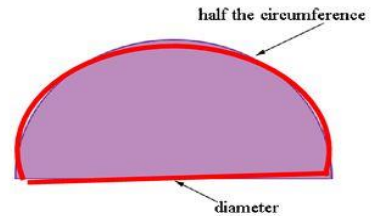
Grade-Section:7 (A)

Objectives: 1) Find the perimeter and the area of a semicircle.

2) Find the area of the shaded region between two circles .

Perimeter of Semicircle

In a semi circle, the perimeter is made up of half the circumference (arc) of the circle and the diameter of the circle



$$\begin{aligned}\text{Perimeter} &= \frac{1}{2} \times (\text{circumference of circle}) + d \\ &= \frac{1}{2} \times (2\pi r) + d\end{aligned}$$

$$\text{Perimeter} = \pi r + d$$

$$\text{Perimeter} = \pi r + 2r \quad (\because d = 2r)$$

$$\text{Perimeter of semicircle} = r(\pi + 2)$$

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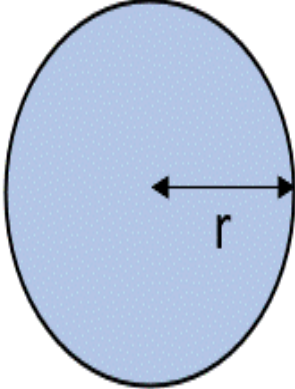
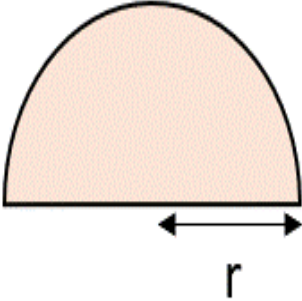
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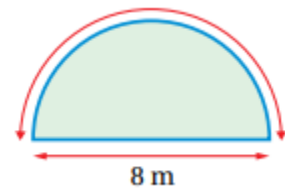
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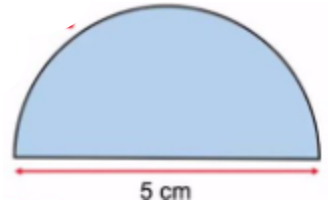


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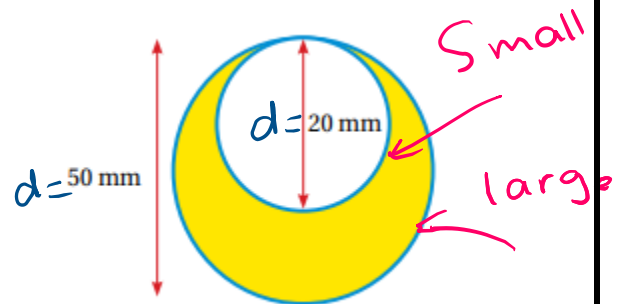
Area of a circle	Area of a Semicircle
	
$\text{Area} = \pi r^2$	$\text{Area} = \frac{1}{2} \pi r^2$

Exercise (1) : Find the perimeter and area of the following semicircles :(in terms of π)





Exercise (2): Find the area of the shaded region of the following shapes :
(in terms of π)



Teacher : wisam al-mashni