

Revision Booklet 2

Topics

This is a sample of the cover, first page and relevant answers in Revision Booklet 2. The booklets contain over 100 questions in total and are in Word and PDF electronic formats, so it is necessary to print copies if paper versions of the booklets are required.

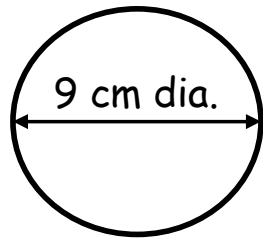
1. Circumference of a Circle
2. Area of a Circle
3. Area of a Sector and Annulus
4. 3-D Shapes
5. Linear Equations
6. Time Series
7. Brackets
8. Circle Theorems

Name _____

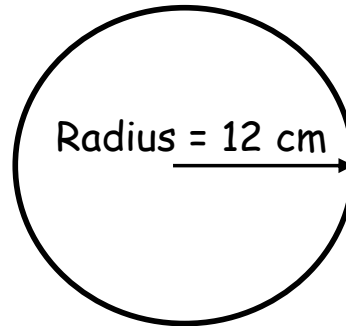
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1. Calculate the circumference and area of each of these circles:

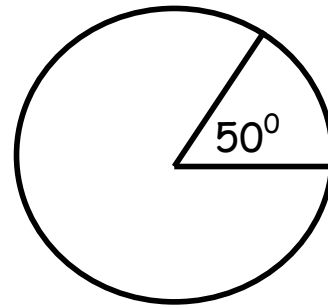
a.



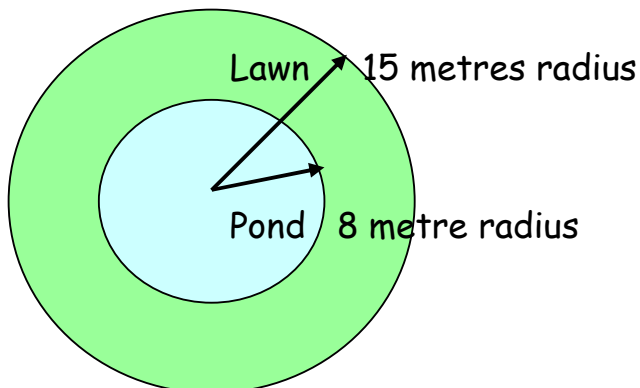
b.



2. A sector with an angle of 50° is cut from a circle with a diameter of 15 cm. Calculate the area and arc length of this sector.

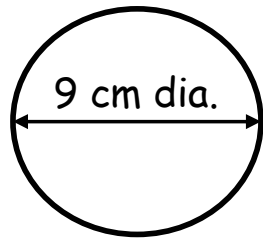


3. A circular lawn has a circular pond in its centre as shown. Calculate the area of the lawn.



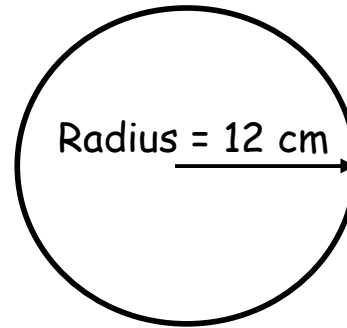
1. Calculate the circumference and area of each of these circles:

a.



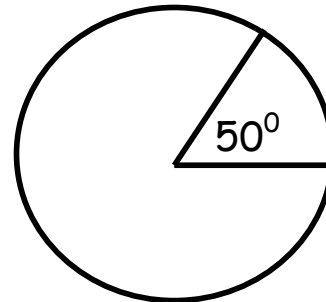
$$\begin{aligned} \text{a. } C &= \pi d \rightarrow C = 28.3 \text{ cm} \\ A &= \pi r^2 \rightarrow A = 63.6 \text{ cm}^2 \end{aligned}$$

b.



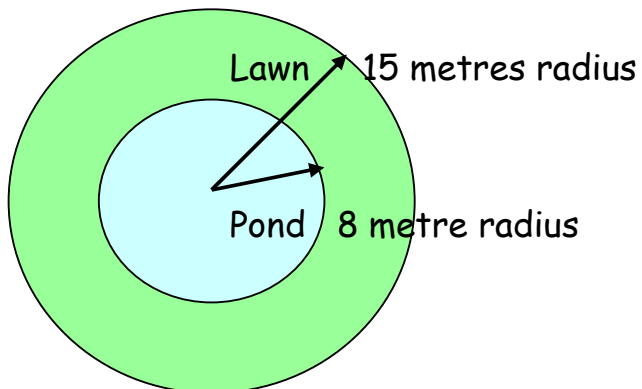
$$\begin{aligned} \text{b. } C &= \pi d \rightarrow C = 75.4 \text{ cm} \\ A &= \pi r^2 \rightarrow A = 452.2 \text{ cm}^2 \end{aligned}$$

2. A sector with an angle of 50° is cut from a circle with a diameter of 15 cm. Calculate the area and arc length of this sector.



$$\begin{aligned} \text{Area} &= (50 \div 360)\pi r^2 \rightarrow A = 24.5 \text{ cm}^2 \\ \text{Arc} &= (50 \div 360)\pi d \rightarrow \text{Arc} = 6.54 \text{ cm} \end{aligned}$$

3. A circular lawn has a circular pond in its centre as shown. Calculate the area of the lawn.



$$A = \pi(15 + 8)(15 - 8)$$

$$A = 3.14 \times 23 \times 7$$

$$A = 505.5 \text{ metres}^2$$