Perimeter and Area
Subtopic: Circles

Section 1

1   Mark T for True and F for False

1a.
   We can measure the non rectilinear shapes with the help of a ruler.

1b.   Area of a circle is πr^3.

1c.   Ratio of circumference to diameter is not approximately the same always.

2   Choose the correct answer
   Circumference of a given circle with radius r is,

   a) $4\pi r$ b) $2\pi / r$ c) $2\pi r$ d) $6\pi r$

Section 2

3   Fill in the blanks :

   The circumference of a circle is always more than _____ times its diameter approximately.

3a

3b.   Diameter of a circular garden is 14.0 m. Its area is _____.

4   Fill the missing values

Circle	Radius	Diameter	Circumference	Circumference to diameter ratio
1	3.5 cm	7.0 cm	22.0 cm	
2	10.5 cm	21.0 cm		
3	15 cm			
4	7.0 cm			

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Section 3

5   From a circular sheet of radius 4 cm, a circle of radius 2 cm is removed. Find the area of the remaining sheet. (Take π = 3.14))

6   If the circumference of a circular sheet is 154 m, find its radius. Also find the area of the sheet. (Take π = 22 / 7)
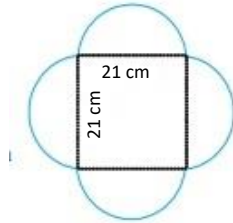
7   Find the cost of polishing a circular table-top of diameter 1.6 m, if the rate of polishing is rupees 16/m^2. (Take π = 3.14)

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Section 4 : Think and Answer questions below

8 Find the perimeter of the given shape. (Take π = 22 /7).

21 cm

21 cm

_____

_____

_____

9 A gardener wants to fence a circular lawn of diameter 21m. Find the length of the rope he needs to purchase, if he makes 2 rounds of fence. Also find the cost of the rope, if it costs rupees 6 per meter.(Take π = 22 / 7)

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10 How many times a wheel of radius 28 cm must rotate to go 352 m ? Take π = 22/7

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