

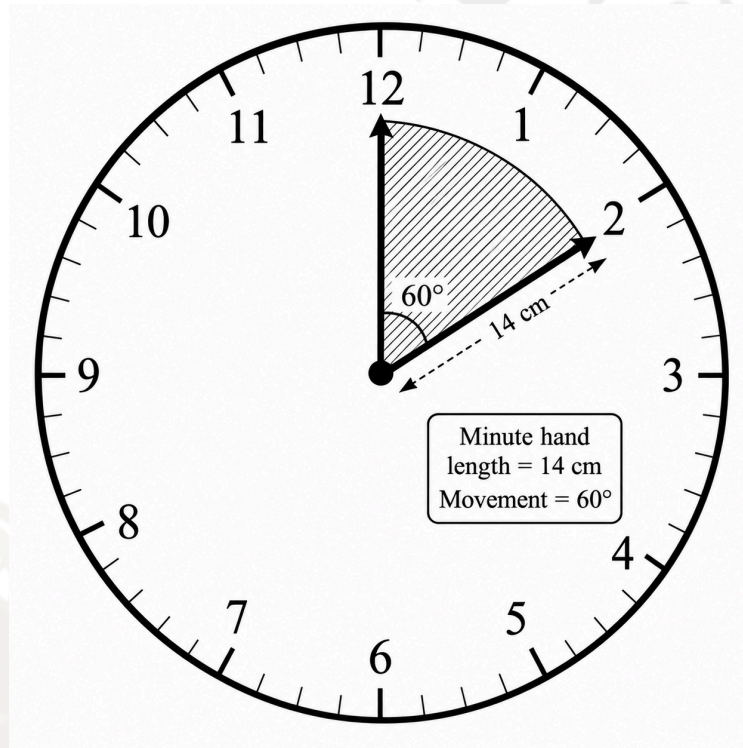
Class 10 Mathematics - Areas Related to Circles

Name: _____

Date: _____

Medium Worksheet 4

Diagram Prompt



Questions

1. Find the area swept by the minute hand.
2. Find the length of the arc traced by the tip of the minute hand.

3. What geometric figure is formed by the swept region?
4. If the hand moves through 120° , what fraction of the circle is covered?
5. What is the radius of the sector formed?
6. Which chapter concept is applied in this problem?

Answer Key

1. Area = $(60/360) \times (22/7) \times 14 \times 14 = 102.67 \text{ cm}^2$
2. Arc Length = $(60/360) \times 2 \times (22/7) \times 14 = 14.67 \text{ cm}$
3. Sector
4. $1/3$
5. 14 cm
6. Area of Sector and Length of Arc