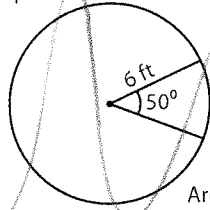


Name : _____

Score : _____

Answer Key

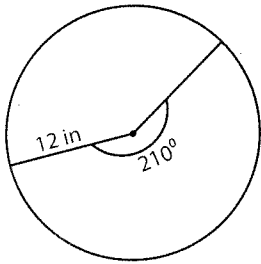
Example:



$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{50^\circ \times 3.14 \times 6 \times 6}{360^\circ} \\ &= 15.7 \text{ ft}^2 \end{aligned}$$

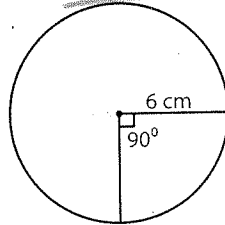
Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



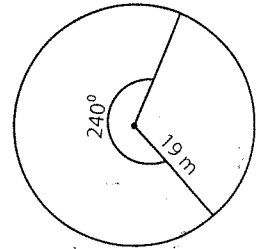
Area = $\frac{263.76 \text{ in}^2}{}$
Arc length = 43.98 in

2)



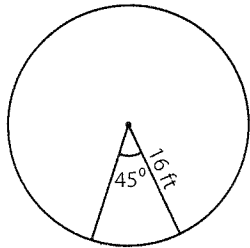
Area = $\frac{28.26 \text{ cm}^2}{}$
9.42 cm

3)



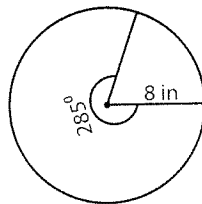
Area = $\frac{755.69 \text{ m}^2}{}$
79.55 m

4)



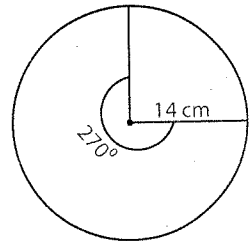
Area = $\frac{100.48 \text{ ft}^2}{}$
12.56 ft

5)



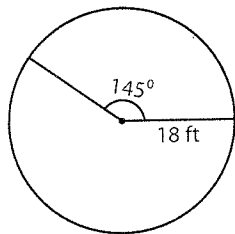
Area = $\frac{159.09 \text{ in}^2}{}$
39.77

6)



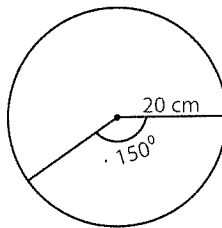
Area = $\frac{461.58 \text{ cm}^2}{}$
65.94

7)



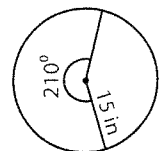
Area = $\frac{409.77 \text{ ft}^2}{}$
45.53

8)



Area = $\frac{523.33 \text{ cm}^2}{}$
52.33

9)



Area = $\frac{412.13 \text{ in}^2}{}$
54.95