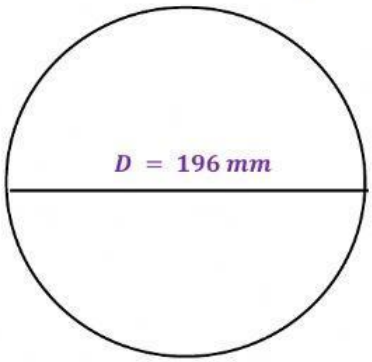
NAME_____ DATE _____

AREA OF CIRCLE AND AREA OF SECTOR OF A CIRCLE

Complete the following by filling in the values.

1. Find the area of a circle of diameter 196 mm. [use $\pi = \frac{22}{7}$]



Solution:

Using

$$A = \frac{\pi D^2}{4}$$

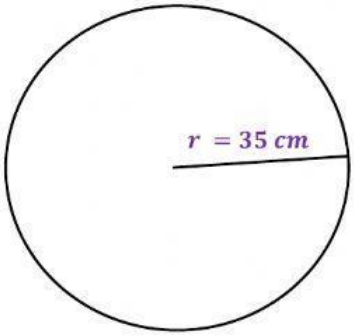
$$A = \frac{22}{7} \times \frac{___^2}{4}$$

$$A = \frac{22}{7} \times \frac{___}{4} \times \frac{196}{1}$$

$$A = 22 \times ___ \times 196$$

$$= _____ mm^2$$

2. Calculate the area of a circle given a radius of 35 cm.



Solution

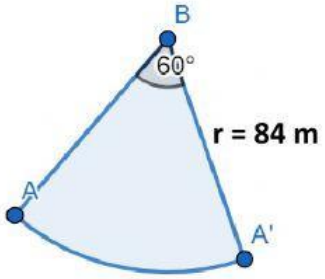
$$A = \pi r^2$$

$$A = \frac{22}{7} \times \frac{___^2}{1}$$

$$A = 22 \times ___ \times ___$$

$$= _____ cm^2$$

3. Calculate the area of the sectors shown.



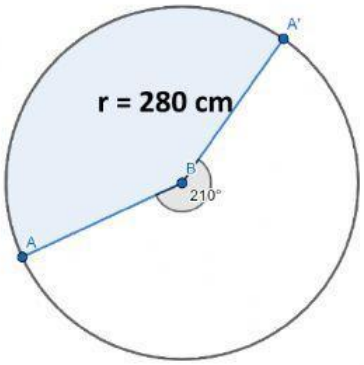
Solution: Using $A = \pi r^2 \frac{\theta}{360°}$

$$A = \frac{22}{7} \times ___ \times \frac{___°}{360°}$$

$$A = ___ \times ___ \times ___ \times \frac{1}{6} = _____$$

$$= _____ m^2$$

4. Solution: Using $A = \pi r^2 \frac{\theta}{360°}$



$$A = \frac{22}{7} \times ___ \times \frac{___°}{360°}$$

$$A = ___ \times ___ \times ___ \times \frac{7}{12} = _____$$

$$= _____ cm^2$$

LIVEWORKSHEETS