

Practice

Form G

HW-45 Areas of Circles and Sectors

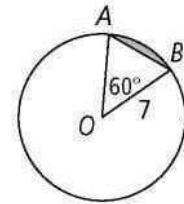
Find the area of each of the following. Leave your answer in terms of π .

1. $\odot O$

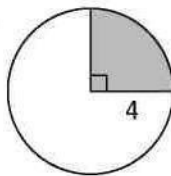
2. Triangle AOB

3. sector AOB

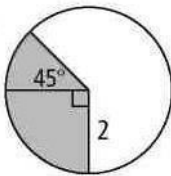
4. the shaded segment



Find the area of each shaded sector of a circle. Leave your answer in terms of π .

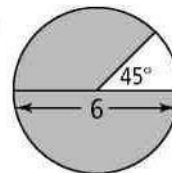


5.



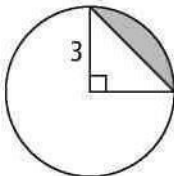
6.

7.

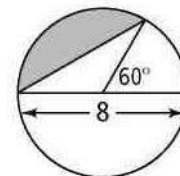


Find the area of each shaded segment. Round your answer to the nearest tenth.

8.



9.



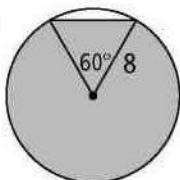
Find the area of sector RST in $\odot S$ using the given information. Leave your answer in terms of π .

10.

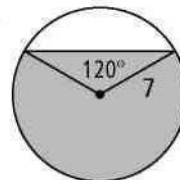
$$r = 3 \text{ in.}, m\widehat{RT} = 30$$

Find the area of the shaded region. Leave your answer in terms of π and in simplest radical form.

11.

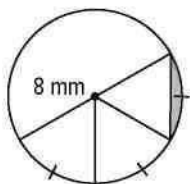


12.

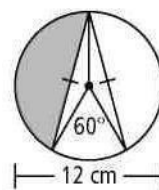


Find the area of each shaded segment. Round your answer to the nearest tenth.

13.



14.



15. In a circle, a 60° sector has area $25\pi \text{ ft}^2$. What is the circumference of the circle?
Leave your answer in terms of π and in simplest radical form.

