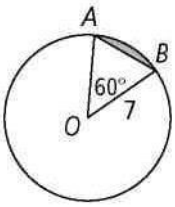
Name _____ Class _____ Date _____

Practice

Form G

10-7 Areas of Circles and Sectors

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



1. $\odot O$

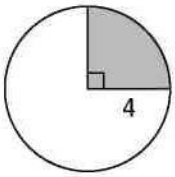
2. $\square AOB$

3. sector AOB

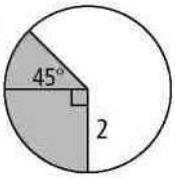
4. the shaded segment

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

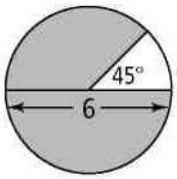
5.



6.

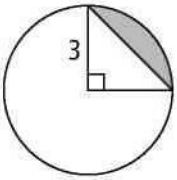


7.

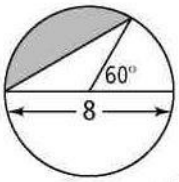


Find the area of each shaded segment. Round your answer to the nearest tenth.

8.



9.

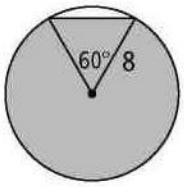


Find the area of sector *RST* in ⊙*S* using the given information. Leave your answer in terms of π.

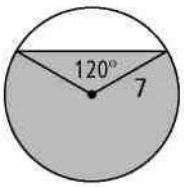
10. r = 3 in., $\overset{\frown}{mRT}$ = 30

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

11.

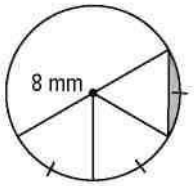


12.

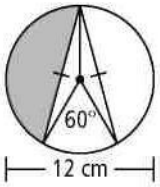


Find the area of each shaded segment. Round your answer to the nearest tenth.

13.



14.



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