

10-7

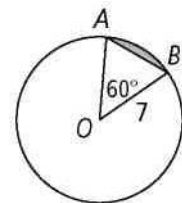
Practice

Form G

Areas of Circles and Sectors

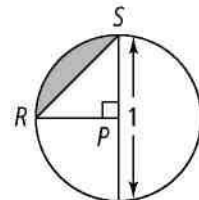
Find the area of each of the following. Leave your answer in terms of π .

1. $\odot O$
2. $\triangle AOB$
3. sector AOB
4. the shaded segment



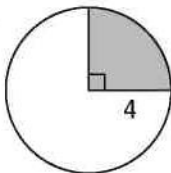
Find the area of each of the following. Leave your answer in terms of π .

5. $\odot P$
6. $\triangle RPS$
7. sector RPS
8. the shaded segment

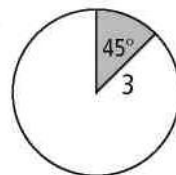


Find the area of each shaded sector of a circle. Leave your answer in terms of π .

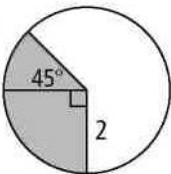
9.



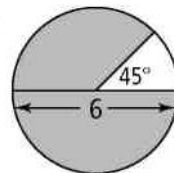
11.



12.

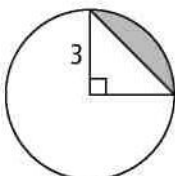


15.

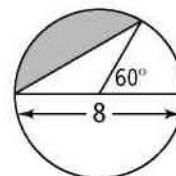


Find the area of each shaded segment. Round your answer to the nearest tenth.

18.



20.



21. The table in the figure at the right is 24 in. across. The shaded regions are made of mahogany. What is the area of the mahogany? Round your answer to the nearest tenth.



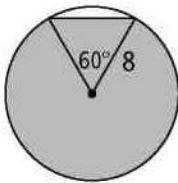
Find the area of sector RST in $\odot S$ using the given information. Leave your answer in terms of π .

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

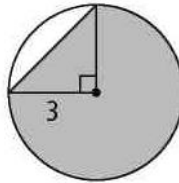
25. $d = 13$ m, $m\widehat{TR} = 120$

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

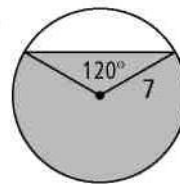
26.



27.

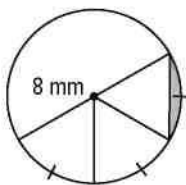


28.

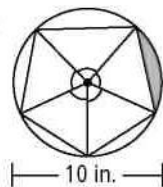


Find the area of each shaded segment. Round your answer to the nearest tenth.

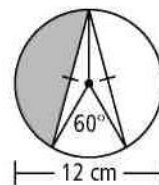
29.



30.



31.



34. In a circle, a 60° sector has area 25π ft². What is the circumference of the circle? Leave your answer in terms of π and in simplest radical form.