Name_____ Date_____

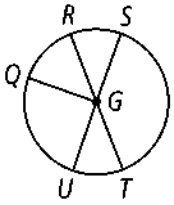
10.5 – Arc and Areas of Circles

Name the following in $\odot G$.

1) the minor arcs

2) the major arcs

3) the semicircles



Find the measure of each arc in $\odot B$.

4) $\overset{\frown}{GJ}$

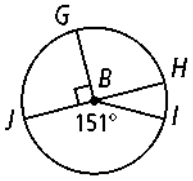
5) $\overset{\frown}{HI}$

6) $\overset{\frown}{HIJ}$

7) $\overset{\frown}{GJI}$

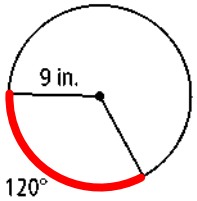
8) $\overset{\frown}{GHJ}$

9) $\overset{\frown}{GJH}$

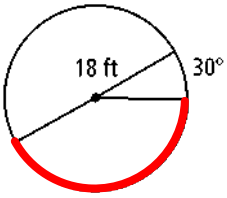


Find the length of each red arc. Leave your answer in terms of π.

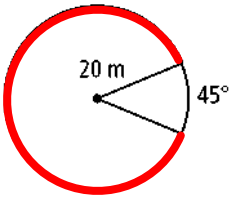
24)

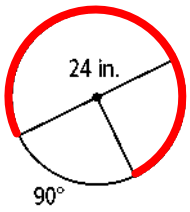


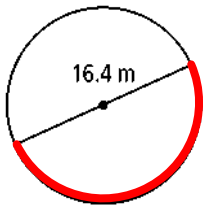
25)

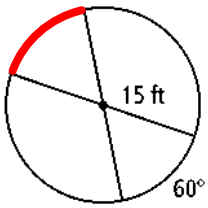


26)



27) 

28) 

29) 

For the following:, leave your answers in terms of π.

30) If $d = 6.4\text{cm}$, $A =$

31) If $A = 529\pi \text{ cm}^2$, $r =$

32) If $C = 36\pi$ cm, $A =$

For the following, round your answers to the nearest 0.01 unit.

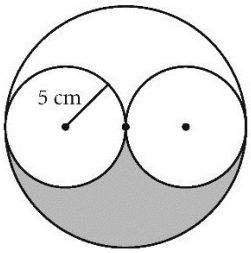
33) If r = 7.8 cm, A =

34) If A = 136.46, C=

35) If d =3.12, A=

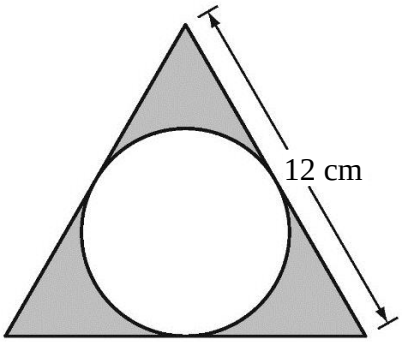
In the following, the two smaller circles are congruent. Find the area of the shaded region.

36)



Refer to the figure of a circle inscribed in an equilateral triangle. Leave

37) Find the area of the inscribed circle.



38) Find the area of the shaded region.