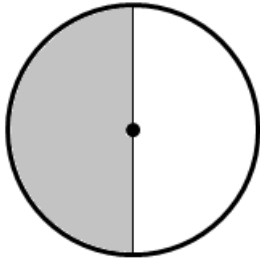


# Sec. 12.4 – Area and Sector Area of a circle

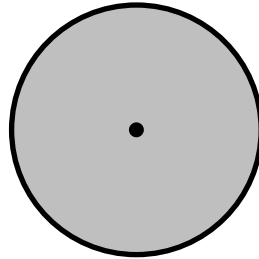
Name \_\_\_\_\_ Hr \_\_\_\_\_

What fraction of each circle is shaded?

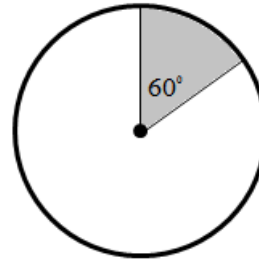
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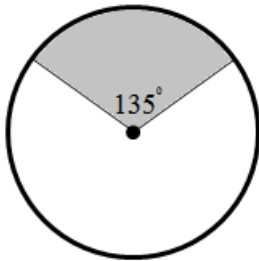
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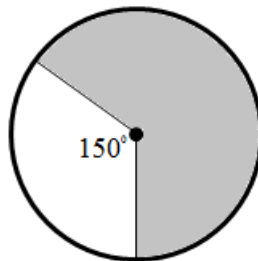
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4.

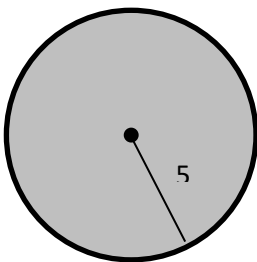


5.

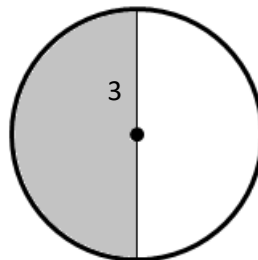


Find the area of each shaded sector.

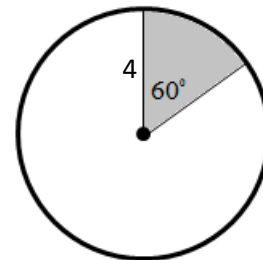
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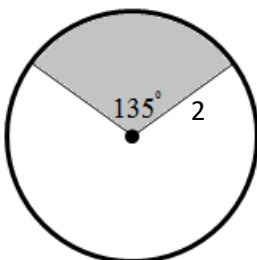
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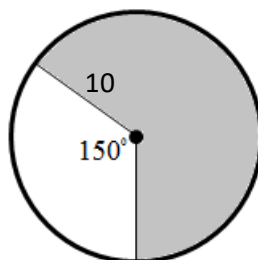
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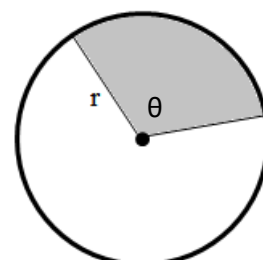
9.



10.



11.

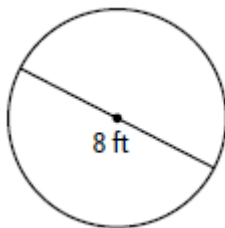


12. What is a general formula to find an area of a sector?

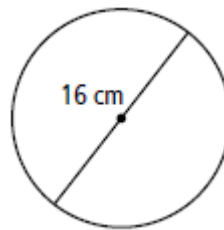
### Practice Section 12.2 Area of Circles and Shaded Regions

Find the area of the circle.

13.



14.



15.



16.



Given the area find the radius.

17.  $A = 8 \text{ cm}^2$

18.  $A = 125 \text{ cm}^2$

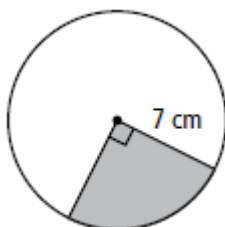
Given the area find the circumference.

19.  $A = 50 \text{ cm}^2$

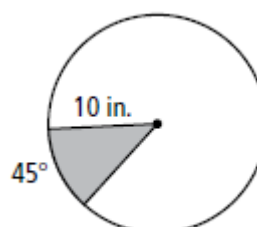
20.  $A = 75 \text{ cm}^2$

Find the Area of the shaded region.

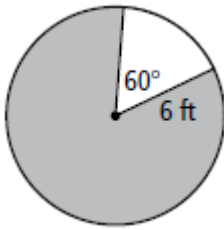
21.



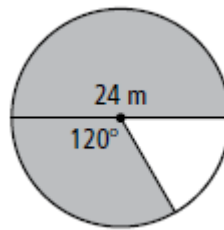
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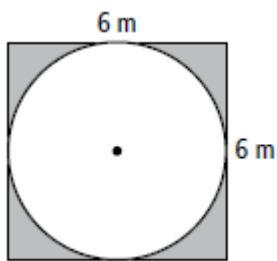
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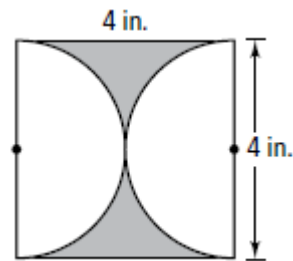
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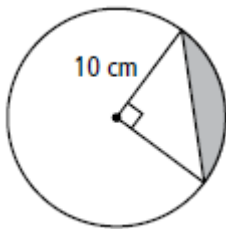
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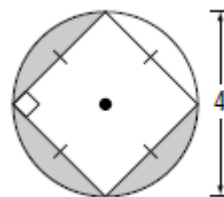
26.



27.



28.



**A pizza has a radius of 10in. Use this information to answer questions 29 -31.**

29. You eat three pieces of a pizza divided into eight slices. What is the area of the pizza you ate?

30. A large pizza has a radius of 12in. What is the area of half of the large pizza?

31. A slice is removed. The length of the crust of the missing slice is 3in. What is the area of the missing slice?