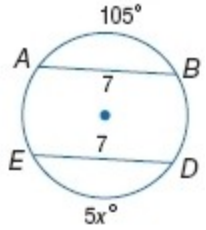
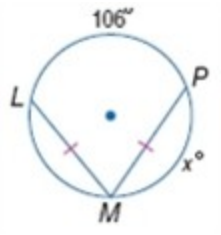
11-3 Arcs and Chords

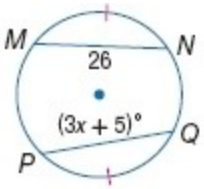
ALGEBRA Find the value of *x*.

7. 

ANSWER:
21

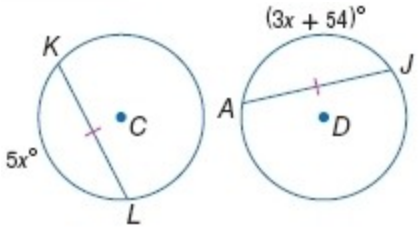
9. 

ANSWER:
127

11. 

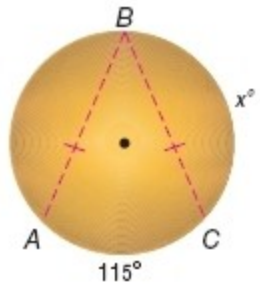
ANSWER:
7

13. $\odot C \cong \odot D$



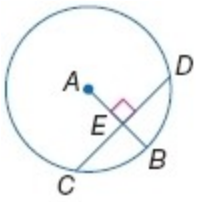
ANSWER:
27

15. **CCSS MODELING** Angie is in a jewelry making class at her local arts center. She wants to make a pair of triangular earrings from a metal circle. She knows that $\overset{\frown}{AC}$ is $115°$. If she wants to cut two equal parts off so that $\overset{\frown}{AB} = \overset{\frown}{BC}$, what is *x*?



ANSWER:
122.5°

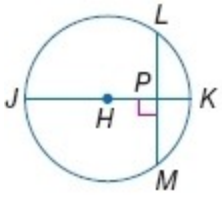
In $\odot A$, the radius is 14 and *CD* = 22. Find each measure. Round to the nearest hundredth, if necessary.



17. *EB*

ANSWER:
5.34

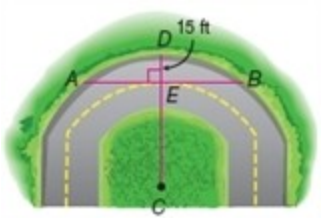
In $\odot H$, the diameter is 18, *LM* = 12, and $m\overset{\frown}{LM} = 84$. Find each measure. Round to the nearest hundredth, if necessary.



19. *HP*

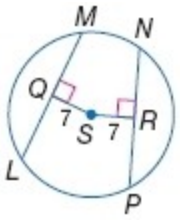
ANSWER:
6.71

21. **ROADS** The curved road at the right is part of $\odot C$, which has a radius of 88 feet. What is *AB*? Round to the nearest tenth.



ANSWER:
98.3 ft

23. **ALGEBRA** In $\odot S$, $LM = 16$ and $PN = 4x$. What is x?



ANSWER:
4