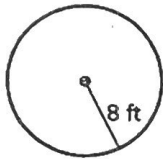
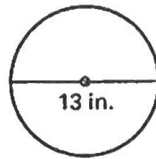


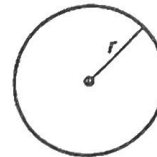
1. Find the circumference.



2. Find the circumference.



3. Find the radius.

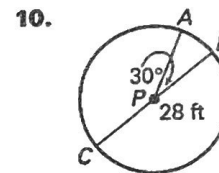
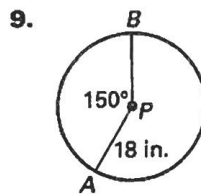
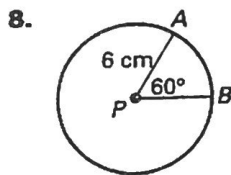


$C = 65.98 \text{ cm}$

Find the indicated measure.

4. The exact radius of a circle with circumference 42 meters
5. The exact diameter of a circle with circumference 39 centimeters
6. The exact circumference of a circle with diameter 15 inches
7. The exact circumference of a circle with radius 27 feet

Find the length of \widehat{AB} .



In $\odot D$ shown below, $\angle EDF \cong \angle FDG$. Find the indicated measure.

11. $m\widehat{EFG}$

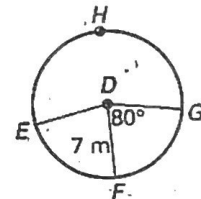
12. $m\widehat{EHG}$

13. Length of \widehat{EFG}

14. Length of \widehat{EHG}

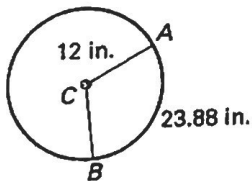
15. $m\widehat{EHF}$

16. Length of \widehat{FEG}

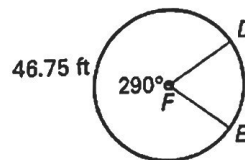


Find the indicated measure.

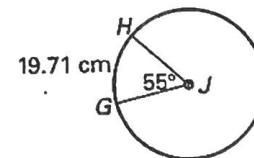
17. $m\widehat{AB}$



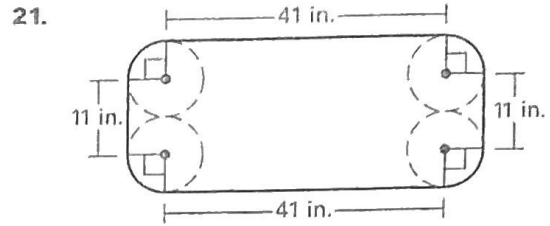
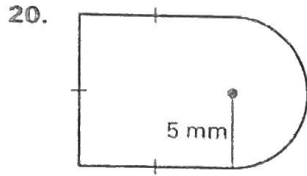
18. Circumference of $\odot F$



19. Radius of $\odot J$



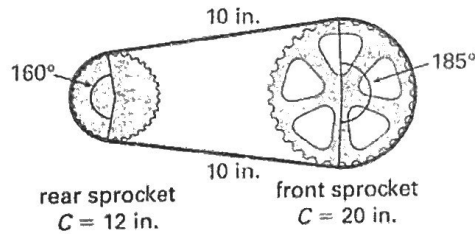
Find the perimeter of the region.



22. In the table below, \widehat{AB} refers to the arc of a circle. Complete the table.

Radius	4	11	?	?	9.5	10.7
$m\widehat{AB}$	30°	?	105°	75°	?	270°
Length of \widehat{AB}	?	8.26	17.94	6.3	14.63	?

23. **Bicycles** The chain of a bicycle travels along the front and rear sprockets, as shown. The circumference of each sprocket is given.



- About how long is the chain?
 - On a chain, the teeth are spaced in $\frac{1}{2}$ inch intervals. About how many teeth are there on this chain?
24. **Enclosing a Garden** You have planted a circular garden with its center at one of the corners of your garage, as shown. You want to fence in your garden. About how much fencing do you need?

