

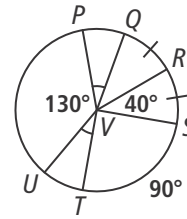


10-1 Additional Practice

Arcs and Sectors

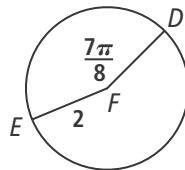
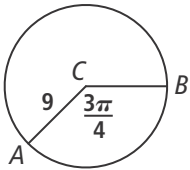
Use $\odot V$ to find each arc measure.

- \widehat{QR}
- \widehat{PQ}
- \widehat{STU}
- \widehat{PSU}

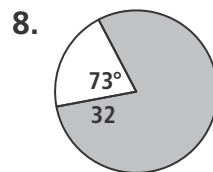
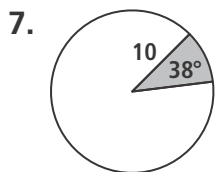


Find each arc length. Express each answer in terms of π .

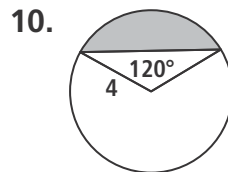
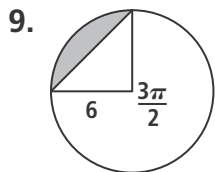
- length of \widehat{AB}
- length of \widehat{DE}



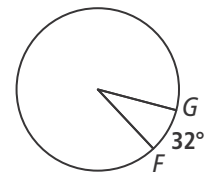
Find the area of the shaded sector. Round to the nearest tenth.



Find the area of the shaded segment. Round to the nearest tenth.



11. The length of \widehat{GF} is 4 m. What is the radius of the circle?
Round to the nearest tenth.



12. What is the area of the sector bounded by \widehat{GF} ? Round to the nearest tenth.

13. If an arc with measure 60° has length 5π on a circle with radius r , what is the length of a 60° arc on a circle with radius $2r$? Explain.

14. A pizza with radius 7 in. is cut into 12 equal-sized pieces. What is the area of each piece? Round to the nearest hundredth of an inch.

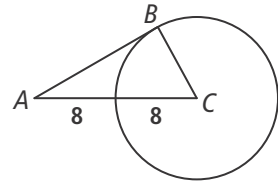
10-2 Additional Practice

Lines Tangent to a Circle

In Exercises 1 and 2, segment \overline{AB} is tangent to $\odot C$. Find each value.

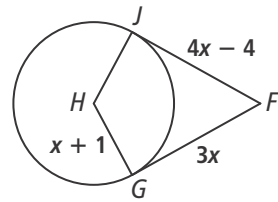
1. AB _____ or _____

2. $m\angle ABC$

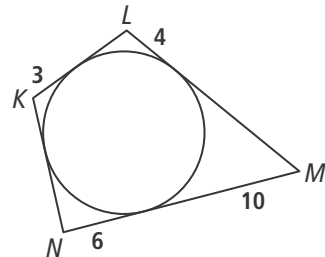


In Exercises 3–5, find each value.

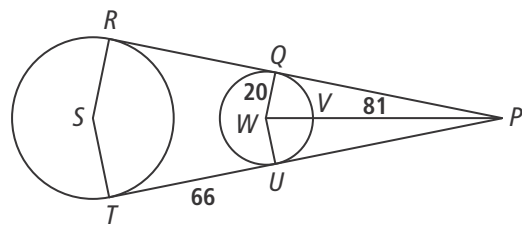
3. \overline{JF} and \overline{GF} are tangent to $\odot H$. What is HJ ?



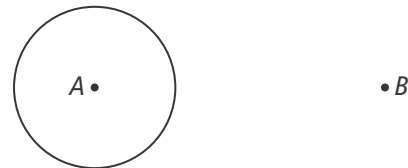
4. \overline{KL} , \overline{LM} , \overline{MN} , and \overline{KN} are tangent to the circle. What is the perimeter of $KLMN$?



5. \overline{RP} and \overline{TP} are tangent to $\odot S$ and $\odot W$. What is RP ?



6. Construct a tangent to $\odot A$ that passes through B .



7. If two segments share an endpoint and are tangent to the same circle at their other endpoints, what must be true of the segments?

8. A marble with radius r rolls in a L-shaped track. How far is the center of the marble from the corner of the track?

