

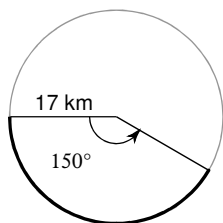
Circles #5: Arc length and Sector area

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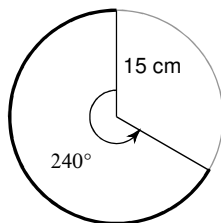
Date _____ Period _____

Find the length of each arc.

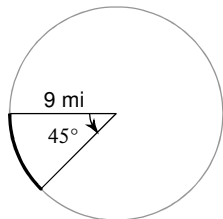
1)



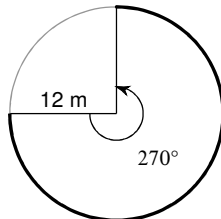
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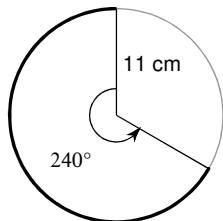
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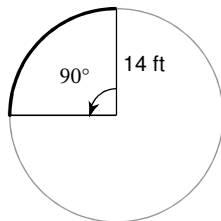
4)



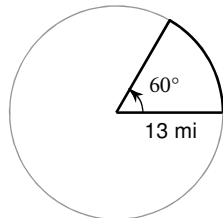
5)



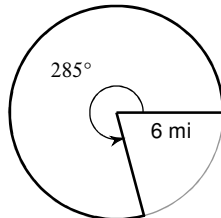
6)

**Find the area of each sector.**

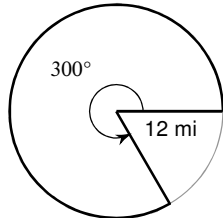
7)



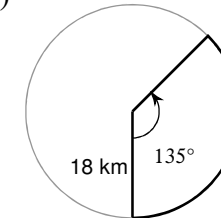
8)



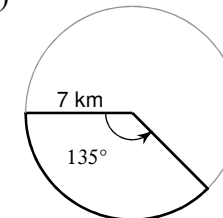
9)



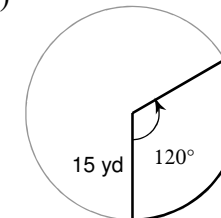
10)



11)

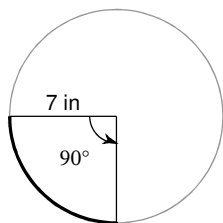


12)

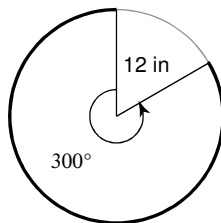


Find the length of each arc. Round your answers to the nearest tenth.

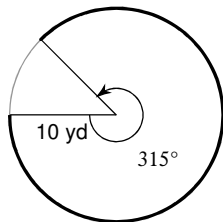
13)



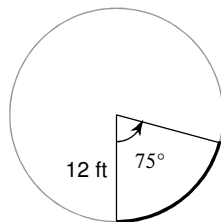
14)



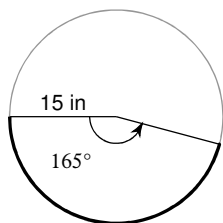
15)



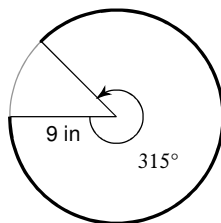
16)



17)

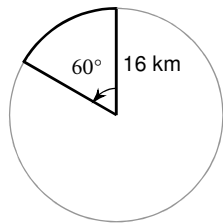


18)

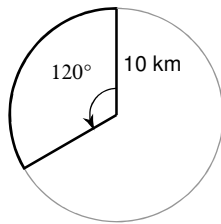


Find the area of each sector. Round your answers to the nearest tenth.

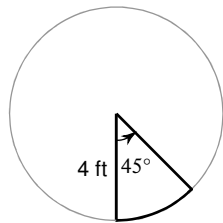
19)



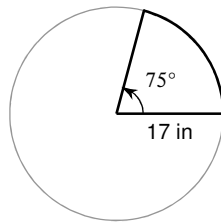
20)



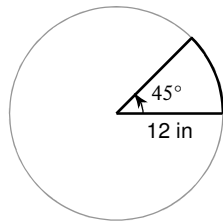
21)



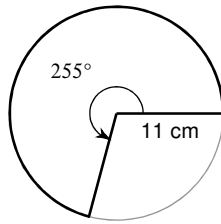
22)



23)



24)



Answers to Circles #5: Arc length and Sector area

1) $\frac{85\pi}{6}$ km

2) 20π cm

3) $\frac{9\pi}{4}$ mi

4) 18π m

5) $\frac{44\pi}{3}$ cm

6) 7π ft

7) $\frac{169\pi}{6}$ mi²

8) $\frac{57\pi}{2}$ mi²

9) 120π mi²

10) $\frac{243\pi}{2}$ km²

11) $\frac{147\pi}{8}$ km²

12) 75π yd²

13) 11.0 in

14) 62.8 in

15) 55.0 yd

16) 15.7 ft

17) 43.2 in

18) 49.5 in

19) 134.0 km²

20) 104.7 km²

21) 6.3 ft²

22) 189.2 in²

23) 56.5 in²

24) 269.3 cm²