

Circumference and arclength

Check For Understanding:

1. $\pi =$ [A] 3 [B] $\frac{22}{7}$ [C] 3.14 [D] π

2. Complete the table:

Radius	Diameter
2 yds.	
5.5 in.	
r m.	
	9 ft.
	6 cm.
	D m.

3. Complete the table giving approximate measures ($\pi \approx 3.14$).

Diameter	Circumference
2 ft.	
5 yds.	
5.2 in.	
D m.	
	5 in.
	18 ft.
	2.7 cm.
	C m.

Practice: C-Level

4. Complete the tables giving EXACT measures.

a.

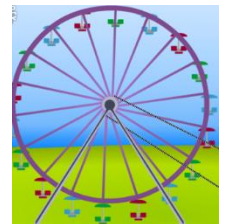
Diameter	Circumference
1 ft.	
2 yds.	
5.5 in.	
D m.	
	1π in.
	9π ft.
	2.3π cm.
	C m.

b.

Radius	Diameter	Circumference
2 ft.		
	6 yds.	
4.3 in.		
r m.		
	D m.	
		1π cm.
		9π ft.
		2.3π cm.
		C m.

5. If the distance from the center of a Ferris wheel to one of the seats is 900 feet. What is the EXACT distance traveled by a seated person in one revolution?

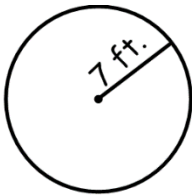
What is the approximate distance to the nearest foot?



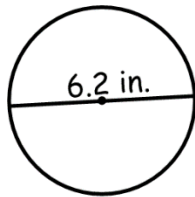
Arc length: Arc length is the length of an arc measured in units (ft., in., m., cm., etc.) not degrees. It is a piece of the circumference.

6. Find the circumference of each circle.

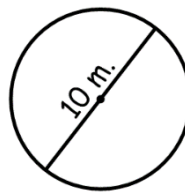
a.



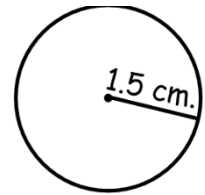
b.



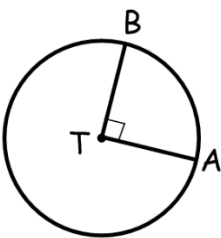
c.



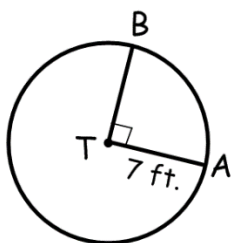
d.



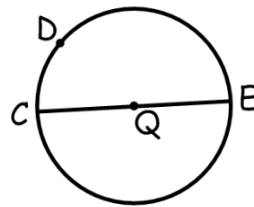
7. \widehat{AB} is what fraction of circle T?



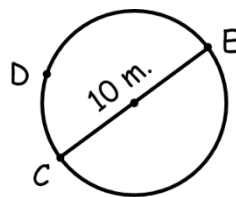
11. Length of \widehat{AB} :



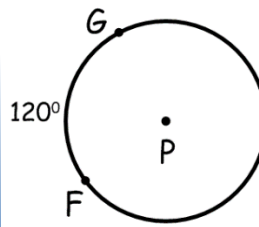
8. \widehat{CDE} is what fraction of circle Q?



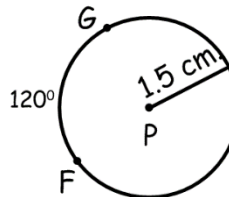
12. Length of \widehat{CDE} :



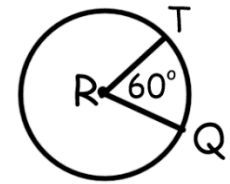
9. \widehat{FG} is what fraction of circle P?



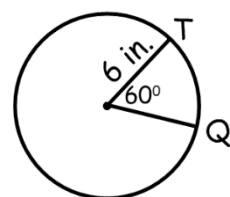
13. Length of \widehat{FG} :



10. \widehat{TQ} is what fraction of circle Q?

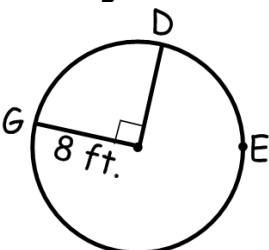


14. Length of \widehat{TQ}



Practice: B-Level

15. Length of \widehat{DEG} is _____



16. Length of \widehat{FLP} is _____

