

Group member names _____

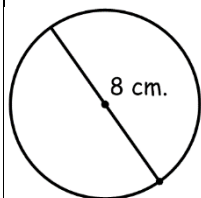
1. Complete the table giving EXACT measures. (7 points)

Radius	Diameter	Circumference	Area
10 ft.			
	24 yds.		
r m.			
	D m.		
		18π ft.	
			25π sq. cm.

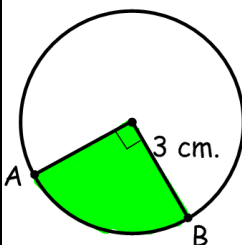
C-Level

G7B-1 I can find the circumference and arc length. (7 points)

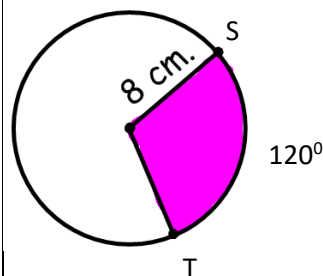
2. Find the exact circumference



3. Find the exact arc length of \widehat{AB}

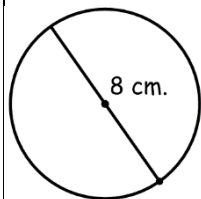


4. Find the exact arc length of \widehat{ST}

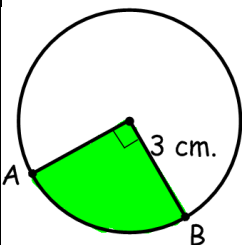


G7B-2 and G7B-3 I can find the area of a circle and sector (7 points)

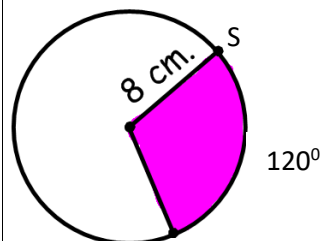
5. Find the exact area:



6. Find the exact area of the shaded sector



7. Find the exact area of the shaded sector.



G7B-4 I can complete circle application problems. (7 points)

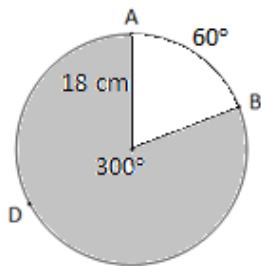
8. GeoPizza sells 12 inch and 16 inch diameter pizzas. They cut the 12 inch pizza into 6 slices and the 16 inch pizza into 8 slices. Would you get more pizza selecting 3 slices of the 12 inch pizza or 2 slices of the 16 inch pizza?

9. At the skate park, a "half-pipe" ramp is formed by two quarter-circle ramps, each of which is 12 feet high, plus a flat space 25 feet long between the centers. Find the distance a skater travels from the top of one ramp to the top of the other.

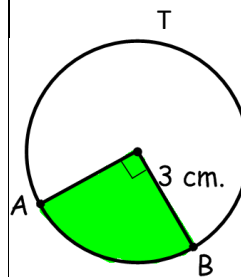
B-Level

G7B-1 I can find the circumference and arc length. (3 points)

10. Find the exact arc length of \widehat{ADB}

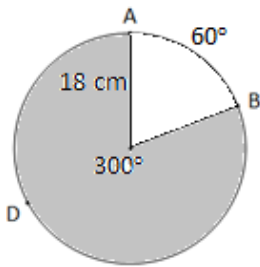


11. Find the exact arc length of \widehat{ATB}

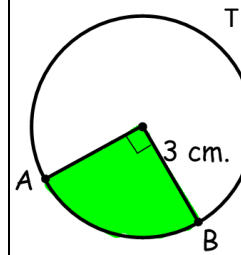


G7B-2 and G7B-3 I can find the area of a circle and sector (3 points)

12. Find the exact area of the shaded sector



13. Find the exact area of the sector bound by \widehat{ATB}

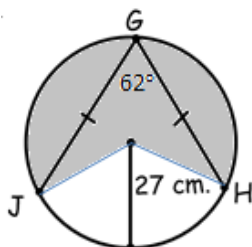


G7B-4 I can complete circle application problems. (2 points)

14. A rotating sprinkler sprays a stream of water 32 feet long. The sprinkler rotates 240° . What is the area of the portion of the yard that is watered by the sprinkler?

A-Level (2 points each)

15. Find the exact area of the shaded region.



16. A car wheel has a 28-inch diameter. Through what angle does the wheel travel if the car has moved 2 feet?