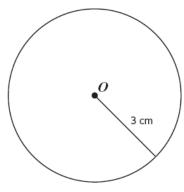
Multiple Choice (25 Points)

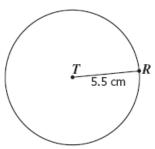
Identify the choice that best completes the statement or answers the question.

1. Which is closest to the circumference of circle O shown?



- a. 113.04 cm
- b. 75.36 cm
- c. 37.68 cm
- d. 18.84 cm
- 2. Which statement *must* be true about a diameter of a circle?
 - a. Divides a circle into fourths
 - b. Intersects at only one point on the circle
 - c. Shortest distance across a circle
 - d. Intersects the center of a circle

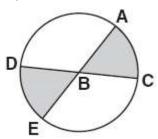
3. In the circle shown, Point T is the center of the circle and Point R is on the circle.



Which is closest to the circumference of circle T?

- a. 15.70 cm
- b. 17.27 cm
- c. 31.40 cm
- d. 34.54 cm
- 4. If the diameter of a circle is 7 inches, which is closest to the circumference?
 - a. 21.98 in.
- b. 38.47 in.
- c. 43.96 in.
- d. 153.86 in.
- 5. The diameter of a circle is 6 feet. Which is closest to the circumference of the circle?
 - a. 18.84 ft
- b. 28.26 ft
- c. 37.68 ft
- d. 113.04 ft

6. Section ABC and section EBD of the flower garden contain roses. \overline{AE} and \overline{CD} are straight line segments.



If \angle ABC measures 38°, what is the measure of \angle EBD?

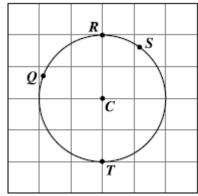
- a. 38°
- b. 90°
- c. 52°
- d. 142°

7. The radius of each wheel on this cart is 13 inches.



If a steel rim is fitted around the wheel, which is closest to the circumference of the rim?

- a. 20.4 in.
- b. 40.8 in.
- c. 81.6 in.
- d. 530.7 in
- 8. In the figure below, point C is the center of the circle.



Which two points can be connected to form a chord that is *not* a diameter?

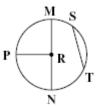
- a. Points Q and T
- b. Points *S* and *C*
- c. Points *R* and *T*
- d. Points T and C

- 9. Which is a true statement?
 - a. The length of the radius of a circle is one-fourth the length of the diameter.
 - b. The length of the radius of a circle is the same as the length of the diameter.
 - c. The length of the radius of a circle is one-half the length of the diameter.
 - d. The length of the radius of a circle is two times the length of the diameter.

10. Which is *closest* to the circumference of a circle with a radius of 9 inches?

- a. 28.26 in.
- b. 56.52 in.
- c. 63.59 in.
- d. 81.31 in.

__ 11. In the figure below, point R is the center of the circle.



Which of the following is a chord of the circle?

- a. \overline{ST}
- b. \overline{PR}
- c. \overline{MR}
- d. \overline{RN}

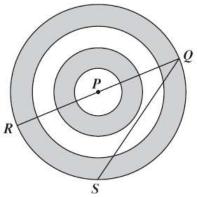
12. The original Ferris wheel introduced at the 1893 World's Fair in Chicago had a diameter of 250 feet.



Which is closest to the distance a person who rode this wheel traveled in one complete revolution?

- a. 393 ft
- b. 785 ft
- c. 1,570 ft
- d. 49,063 ft

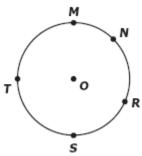
13. Point P is the center of the circular target shown in the picture.



Which appears to be a diameter of the circle?

- a. \overline{PQ}
- b. <u>sq</u>
- c. \overline{PR}
- d. \overline{RQ}

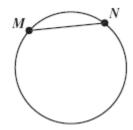
14. In the figure, point O is the center of the circle.



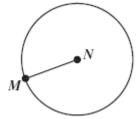
Which two points appear to make a diameter when connected with a straight line?

- a. M and S
- b. T and R
- c. O and R
- d. N and S
- 15. Which illustration best shows \overline{MN} as the radius of the circle?

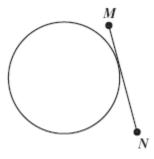




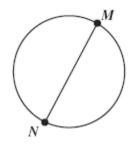
c.



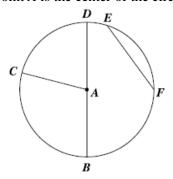
b.



d.



16. Point *A* is the center of the circle.



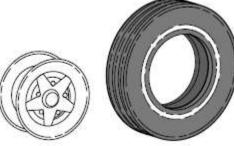
 \overline{EF} is best described as --

- a. a radius
- b. a chord
- c. a diameter
- d. an arc

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Name: _____

____ 17. The wheel rim has a diameter of 15 inches.



Which is *closest* to the inside circumference of the tire designed to fit on the rim?

- a. 47.1 in
- b. 94.2 in
- c. 176.6 in
- d. 706.5 in

Ch 10 Notes Discovery: (50 Points)

For	mul	las:
T OI	HILL	un.

Circumference = diamete	_ (using the radius) or =er	(using the diameter)
Fill in the blanks		
Arc length = $\frac{cen}{}$	tral angle ×	
Angles:		
Central Angle =		sides are
Inscribed Angle = $\frac{1}{2}$)	sides are
Interior Angle = $= \frac{1}{2}$	+) sides are
Exterior Angle = $\frac{1}{2}$	-) sides are
Minor Arc: arc <	Major Arc: arc > _	Semi-Circle: arc =
Special Segments:		
	together = part	
	part times =	
Outside segments:	part times =	part times
Other Things:		
Tangents are	to radii or diamet	er.
Equation of a circle: (x -	-) ² + (y) ² = ²	with (h, k) as its center and r as its radius
Use o	of diameter to find the center of a c	circle
Use fe	ormula (from center to edge) to fir	nd the radius