Name _____ Date _____ Pd ____

11.1 – 11.4 Quiz Review

Core Vocabulary you need to know and the page it can be found on in your book.

circumference, *p. 594*	radius of a regular polygon, *p. 611*	face, *p. 618*
arc length, *p. 595*	apothem of a regular polygon, *p. 611*	edge, *p. 618*
radian, *p. 597*	central angle of a regular polygon, *p. 611*	vertex, *p. 618*
population density, *p. 603*	polyhedron, *p. 618*	cross section, *p. 619*
sector of a circle, *p. 604*		solid of revolution, *p. 620*
center of a regular polygon, *p. 611*		axis of revolution, *p. 620*

Core Concepts you will be assessed on and what page it can be found on in your book.

Section 11.1

Circumference of a Circle, *p. 594*	Arc Length, *p. 595*	Converting between Degrees and Radians, *p. 597*

Section 11.2

Area of a Circle, *p. 602*	Population Density, *p. 603*	Area of a Sector, *p. 604*

Section 11.3

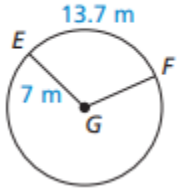
Area of a Rhombus or Kite, *p. 610*	Area of a Regular Polygon, *p. 612*	

Section 11.4

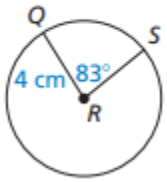
Types of Solids, *p. 618*	Cross Section of a Solid, *p. 619*	Solids of Revolution, *p. 620*

11.1

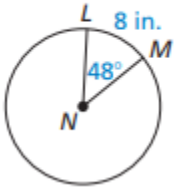
1. $m\overset{\frown}{EF}$



2. arc length of $\overset{\frown}{QS}$



3. circumference of $\odot N$

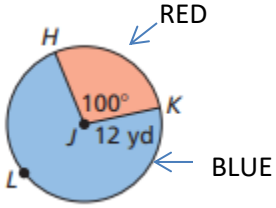


4. Convert 26° to radians and $\frac{5\pi}{9}$ radians to degrees.

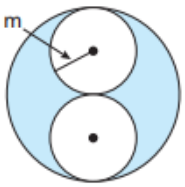
11.2

5. a) area of the red sector

b) area of the blue sector



6. The two white congruent circles just fit into the blue circle. What is the area of the blue region?

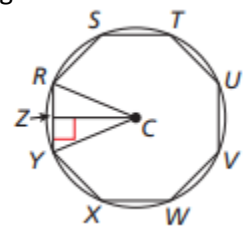


11.3

In the diagram, *RSTUVWXY* is a regular octagon inscribed in ⊙*C*.

7. Identify the …

a) center b) radius c) apothem d) a central angle



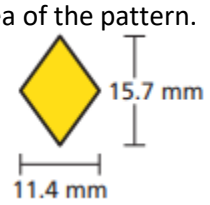
8. Find…

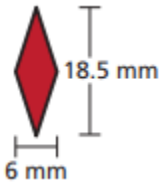
a) m∠RCV b) m∠RCZ c) m∠ZRC

9.

a) The radius of the circle is 8 units. Find the area of the octagon.

b) Find the area of each rhombus tile. Then find the area of the pattern.

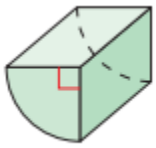




11.4

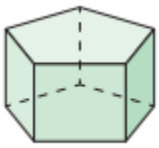
Tell whether the solid is a polyhedron. If it is, name the polyhedron.

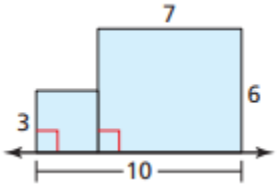
10.



11.

12.





13. Sketch the composite solid produced by rotating the figure around the given axis. Then identify and describe the composite solid.