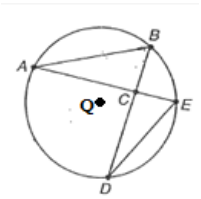
Unit 4B Cumulative Quiz SUPPORT

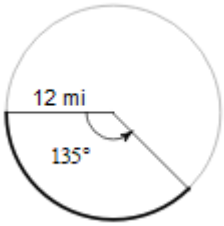
Name: _____ Date: _____ Period: ___

1



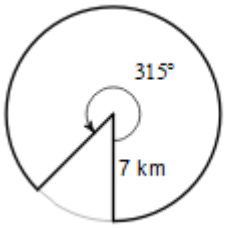
Given that $\widehat{AB} = 105, \widehat{BE} = 45^O, \widehat{ED} = 66^O, find\ m < ABD$

2



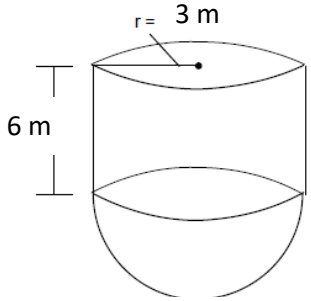
Find the length of the arc. Give the EXACT answer.

3



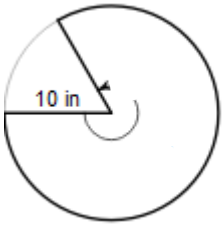
Find the area of the sector. Round to the nearest hundreth.

4



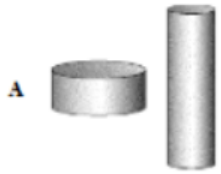
The bottom of the cylindrical container shown has the shape of a hemisphere. The total volume of the container is _____. **Leave your answer in terms of** π

5



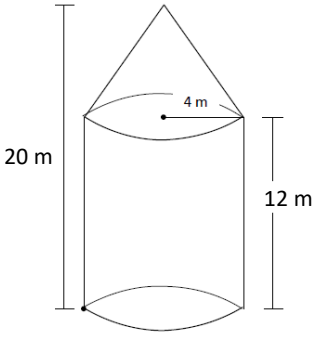
Given the area of the sector is 261.8 yds^2, find the measure of the central angle. Round to the nearest whole #.

6



The figure below is a scale drawing of two cylinders, A and B. Cylinder A has a radius of 6 in and a height of 4 in. Cylinder B has a radius of 3 in and a height of 10 in. Are the volumes of these cylinders equal? If not, which one has the greater volume? SHOW ALL WORK

7

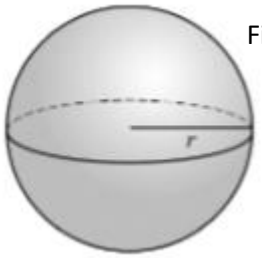


Find the volume of the composite figure. Round your answer to the nearest hundredth.

8

Given the volume of a cone is 201.06 in^3 and the height is 12in, find the radius of the cone.

9



Find the volume of a sphere that has a radius of 18 ft. Leave your answer in terms of π.

10

There are two stacks of pennies, one of which has been moved slightly. Use Cavalieri's Theorem to determine if the volumes of these two stacks are the same, or different? EXPLAIN.