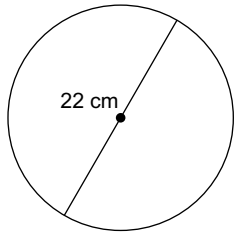


Unit 4C TEST REVIEW: Arc Length, Sector Area, and Volume

Find the area of the circle

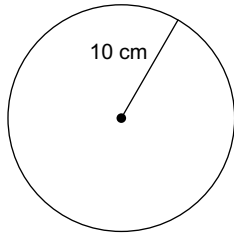
1)



- A) 422.7 cm^2 B) 380.1 cm^2
 C) 34.6 cm^2 D) 415.4 cm^2

Find the circumference of the circle.

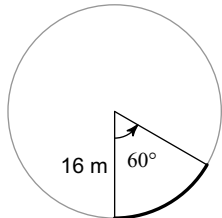
2)



- A) $16\pi \text{ cm}$ B) $14\pi \text{ cm}$
 C) $20\pi \text{ cm}$ D) $18\pi \text{ cm}$

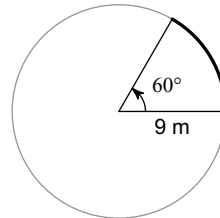
Find the length of each arc.

3)



- A) $\frac{16\pi}{3} \text{ m}$ B) $\frac{45\pi}{2} \text{ m}$
 C) $\frac{128\pi}{3} \text{ m}$ D) $\frac{490\pi}{3} \text{ m}$

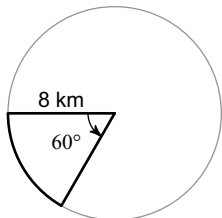
4)



- A) 104.7 m B) 57.9 m
 C) 42.4 m D) 9.4 m

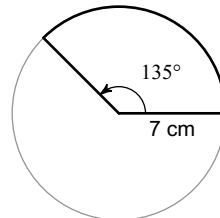
Find the area of each sector.

5)



- A) 436.2 km^2 B) 33.5 km^2
 C) 11.0 km^2 D) 79.6 km^2

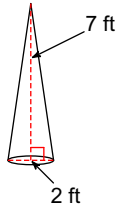
6)



- A) $17640\pi \text{ cm}^2$ B) $\frac{75\pi}{4} \text{ cm}^2$
 C) $\frac{147\pi}{8} \text{ cm}^2$ D) $150\pi \text{ cm}^2$

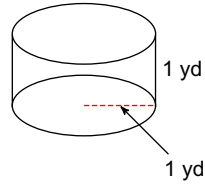
Find the volume of each figure.

7)



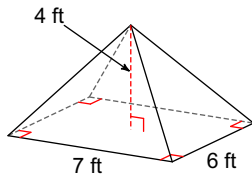
- A) 7.33 ft^3 B) 13.42 ft^3
 C) 18.47 ft^3 D) 29.32 ft^3

8)



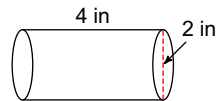
- A) 5.25 yd^3 B) 17.88 yd^3
 C) 3.14 yd^3 D) 10.23 yd^3

9)



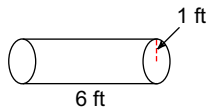
- A) 37 ft^3 B) 42 ft^3
 C) 56 ft^3 D) 168 ft^3

10)



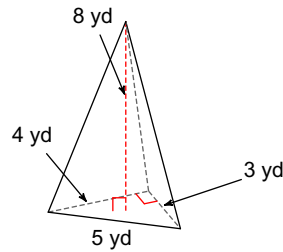
- A) 19.42 in^3 B) 9.95 in^3
 C) 12.57 in^3 D) 50.27 in^3

11)



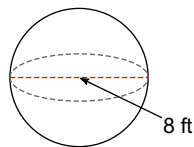
- A) 15.58 ft^3 B) 18.85 ft^3
 C) 4825.49 ft^3 D) 22.54 ft^3

12)



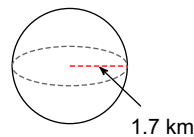
- A) 19 yd^3 B) 16 yd^3
 C) 48 yd^3 D) 13 yd^3

13)



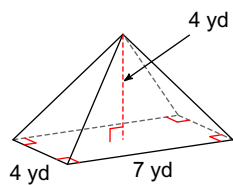
- A) $682.67\pi \text{ ft}^3$ B) $124.5\pi \text{ ft}^3$
 C) $82.41\pi \text{ ft}^3$ D) $85.33\pi \text{ ft}^3$

14)



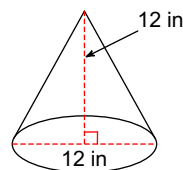
- A) $17.01\pi \text{ km}^3$ B) $13.42\pi \text{ km}^3$
 C) $3.59\pi \text{ km}^3$ D) $6.55\pi \text{ km}^3$

15)



- A) 47.84 yd^3 B) 37.33 yd^3
 C) 112 yd^3 D) 27.31 yd^3

16)



- A) $576\pi \text{ in}^3$ B) $200\pi \text{ in}^3$
 C) $148\pi \text{ in}^3$ D) $144\pi \text{ in}^3$