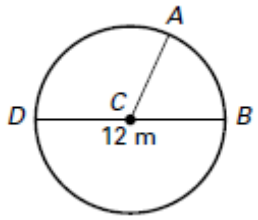
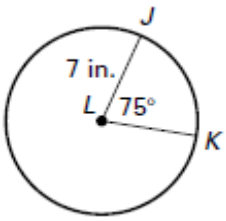
Name _____ Date _____

Find the indicated measure.

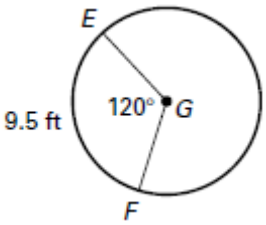
1. Circumference



2. Length of $\overset{\frown}{JK}$

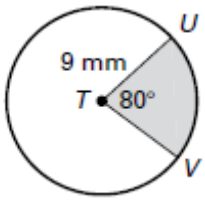


3. Radius

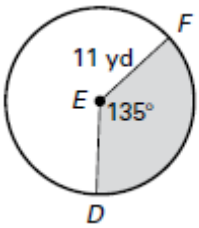


Find the area of the shaded region.

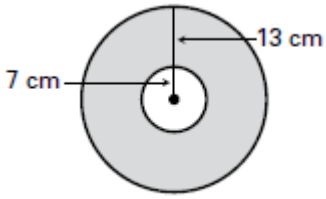
4.



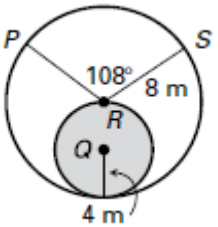
5.



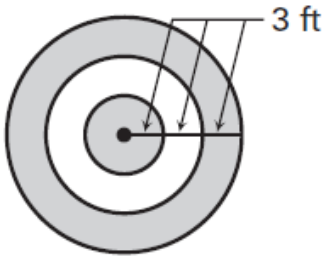
6.



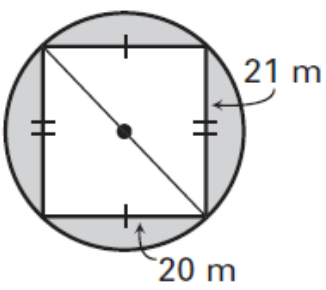
7.



8.

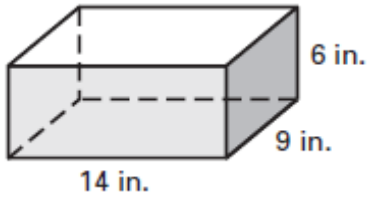


9.

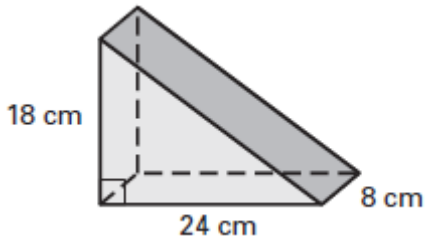


Find the volume of the figure. Round your answer to two decimal places, if needed.

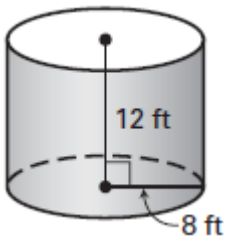
1.



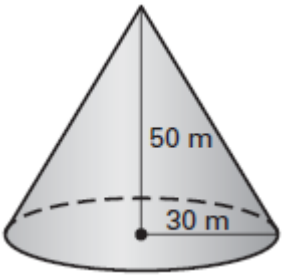
2.



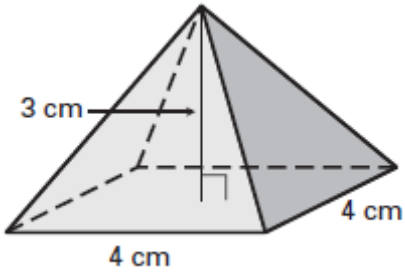
3.



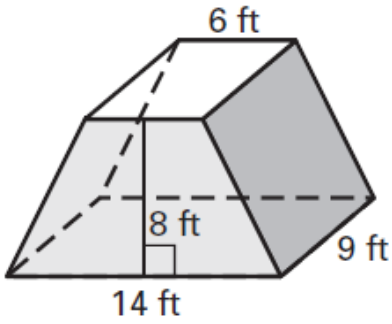
4.



5.

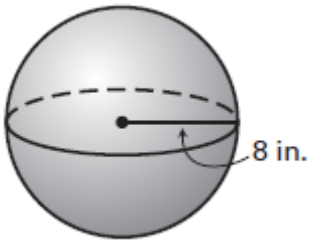


6.

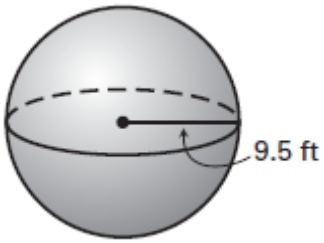


Find the surface area and volume of the sphere. Round your answers to two decimal places.

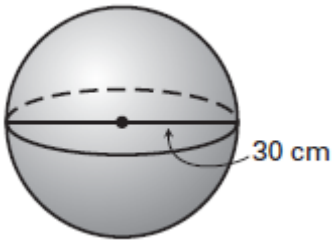
1.



2.



3.

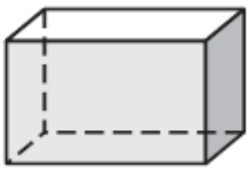


Solid A (shown) is similar to Solid B (not shown) with the given scale factor of A to B. Find the surface area *S* and volume *V* of Solid B.

4. Scale factor 1 : 2

$S = 120$ ft^2

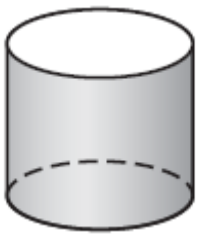
$V = 60$ ft^3



5. Scale factor 1 : 4

$S = 180\pi$ cm^2

$V = 400\pi$ cm^3



6. An aquarium has a width of 48 inches, a length of 30 inches, and a depth of 6 inches. Another aquarium has a width of 80 inches and a depth of 10 inches. The two aquariums are similar. What is the length of the larger aquarium?

Answers

First Page:

1. $12\pi\ m$ = 37.7 m
2. 9.16 in.
3. 4.54 ft.
4. 18π mm^2 = 56.55 mm^2
5. 142.55 yd^2
6. 351π cm^2 = 1103 cm^2
7. 16π m^2 = 50.27 m^2
8. 54π ft^2 = 169.65 ft^2
9. 240.5 m^2

Second Page:

1. 756 $in.^3$
2. 1728 cm^3
3. 768π ft^3 = 2412.74 ft^3
4. 15000π m^3 = 47123.89 m^3
5. 16 cm^3
6. 720 ft^3

Third Page:

1. S.A. = 256π in^2 = 804.25 in^2
   V = 2144.66 in^3
2. S.A. = 361π $ft.^2$ = 1134.11 $ft.^2$
   V = 3591.36 $ft.^3$
3. S.A. = 900π cm^2 = 2827.43 cm^2

   V = 4500π cm^3 = 14137.17 cm^3