

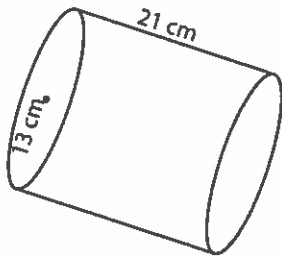
Name : \_\_\_\_\_

Score : \_\_\_\_\_

### Volume - Cylinder

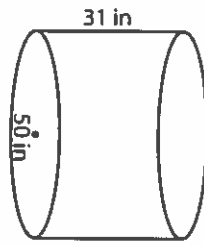
Find the volume of each cylinder. ( use  $\pi = 3.14$  )

1)



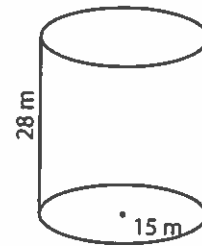
Volume = \_\_\_\_\_

2)



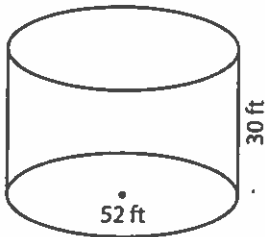
Volume = \_\_\_\_\_

3)



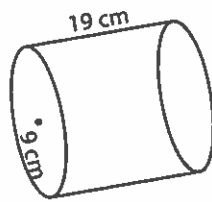
Volume = \_\_\_\_\_

4)



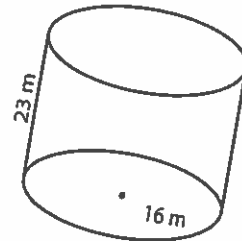
Volume = \_\_\_\_\_

5)



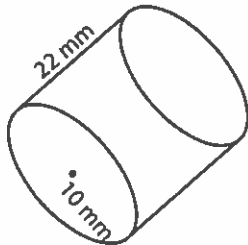
Volume = \_\_\_\_\_

6)



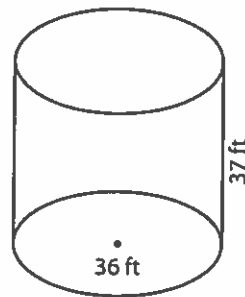
Volume = \_\_\_\_\_

7)



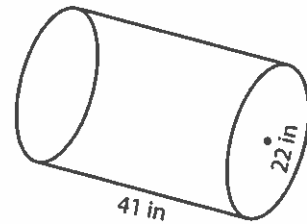
Volume = \_\_\_\_\_

8)



Volume = \_\_\_\_\_

9)



Volume = \_\_\_\_\_

10) Find the amount of wax required to make a candle with radius 22 millimeter and height 61 millimeter.

Volume = \_\_\_\_\_

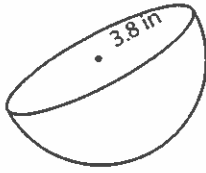
Name : \_\_\_\_\_

Score : \_\_\_\_\_

### Volume - Sphere & Hemisphere

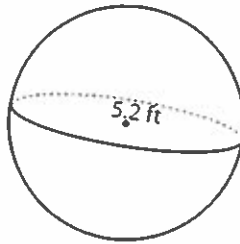
Find the volume of each shape. Round the answer to two decimal places. ( use  $\pi = 3.14$  )

1)



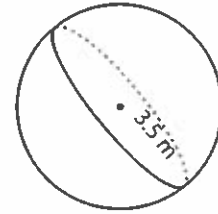
Volume = \_\_\_\_\_

2)



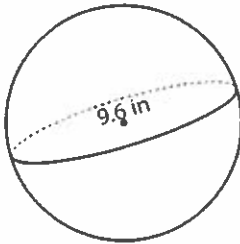
Volume = \_\_\_\_\_

3)



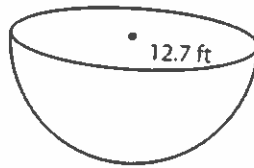
Volume = \_\_\_\_\_

4)



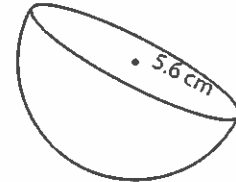
Volume = \_\_\_\_\_

5)



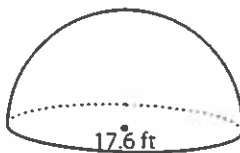
Volume = \_\_\_\_\_

6)



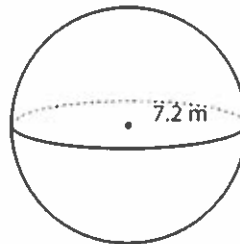
Volume = \_\_\_\_\_

7)



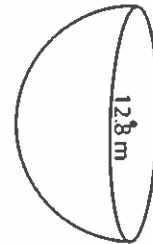
Volume = \_\_\_\_\_

8)



Volume = \_\_\_\_\_

9)



Volume = \_\_\_\_\_

10) Find the volume of air occupied in a hemispherical dome with radius 25.3 feet.

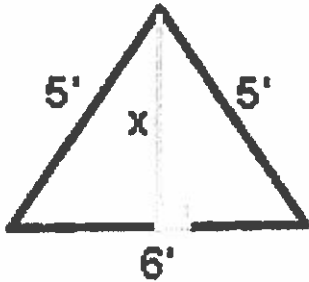
Volume = \_\_\_\_\_

Pythagorean Theorem Quiz #1

Name: \_\_\_\_\_

SHOW ALL WORK TO RECEIVE FULL CREDIT.  
CIRCLE OR BOX ALL FINAL ANSWERS.

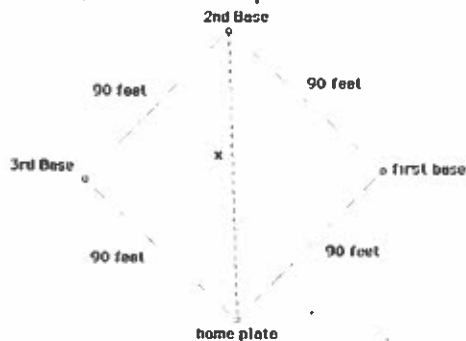
1. The front of a hiking tent is shaped alike a triangle. The slanted sides are both 5 feet long and the bottom of the tent is 6 feet across. What is the height of the tent in feet at the tallest point?



2. Two joggers run 8 miles north and then 15 miles west. What is the shortest distance, they must travel to return to their starting point?



3. A baseball diamond is a square with sides of 90 feet. What is the shortest distance, to the nearest tenth of a foot, between home plate and 2nd base?



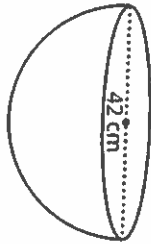
How can you use the Pythagorean Theorem to solve for  $x$ ? Where is the right triangle? Which of the three sides is the hypotenuse? What are the legs?

NOW: Set up and solve the equation using  $a^2 + b^2 = c^2$

**Volume - Mixed Shapes**

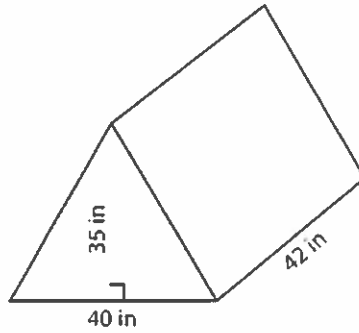
Find the volume of each shape. Round the answer to nearest tenth. ( use  $\pi = 3.14$  )

1)



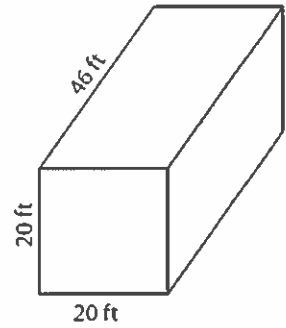
Volume = \_\_\_\_\_

2)



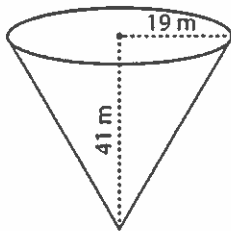
Volume = \_\_\_\_\_

3)



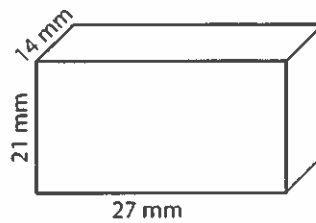
Volume = \_\_\_\_\_

4)



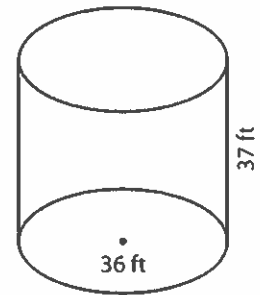
Volume = \_\_\_\_\_

5)



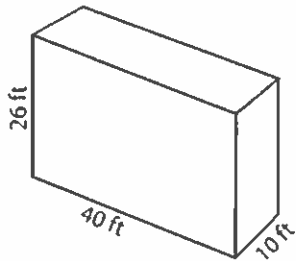
Volume = \_\_\_\_\_

6)



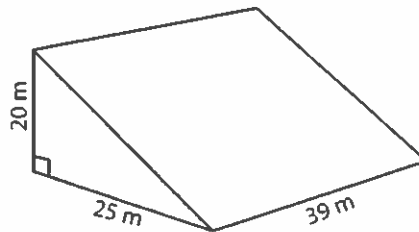
Volume = \_\_\_\_\_

7)



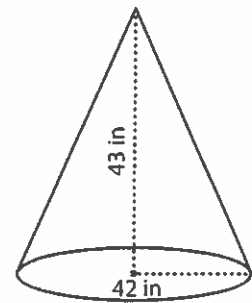
Volume = \_\_\_\_\_

8)



Volume = \_\_\_\_\_

9)



Volume = \_\_\_\_\_