

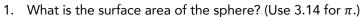
Name:		
Date Started:	Date Completed:	Score:

Learning Activity Sheet Surface Area of Spheres

A. Determine the amount of rubber needed to make a basketball if the diameter of the ball is approximately 4.38 inches. (2 points for each step)

Step 1	Find the surface area of the basketball. Use 3.14 for p.	
	Given: Note that the radius is half the diameter. Since the diameter of	
	the basketball is 4.38 inches, the radius is 2.19 inches.	
	Solution:	
	$SA = 2 \times \pi \times r^2$	
	SA =	
	SA =	
	SA ≈	
	Answer: The surface area of the basketball is approximately	
Step 2	State the answer in a complete sentence.	
	>> Approximately of rubber is needed to make the basketball.	

B. Circle the letter that corresponds to the correct answer.



- a. 1,519.76 sq. cm
- c. 7,744.00 sq. cm
- b. 6,079 sq. cm
- d. 24,316.6 sq. cm



- 2. The radius of a sphere measures 14 centimeters. What is the surface area of the sphere? (Use 3.14 for π .)
 - a. 196 sq. cm

- c. 784 sq. cm
- b. 615.44 sq. cm
- d. 2,461.76 sq. cm
- 3. What is the surface area of the cylinder? (Use 3.14 for π .)
 - a. 31.4 sq. ft

c. 314. sq. ft

b. 78.5 sq. ft

d. 1,156 sq. ft

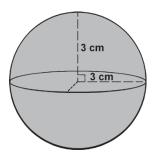


- 4. The radius of a sphere measures 8 centimeters. What is the surface area of the sphere? (Use 3.14 for π .)
 - a. 50.24 sq. cm

- c. 803.84 sq. cm
- b. 200.96 sq. cm
- d. 3,215.36.8 sq. cm



C. Find the surface area of the sphere below



1. Solution:

1.	Solution.	
		Τ
1		

2. Answer: _____