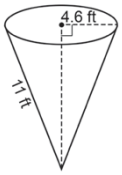
Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Surface Area of Cones

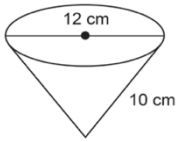
A. Circle the letter that corresponds to the correct answer.

1. Which is the best estimate for the surface area of the cone given below? (Use 3.14 for π.)



   a. 28.9 ft^2 c. 158.9 ft^2
   b. 66.4 ft^2 d. 225.3 ft^2

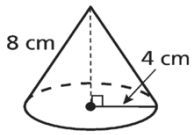
2. What is the lateral area of the cone given on the right? (Use 3.14 for π.)



   a. 37.68 sq. cm c. 188.4 sq. cm
   b. 75.36 sq. cm d. 376.8 sq. cm

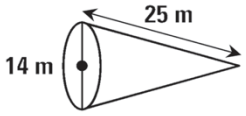
3. A cone has a radius of 6 ft and a slant height of 10 ft. Which of the following is the best estimate for the surface area of the cone?
   a. 37.68 sq. ft c. 188.4 sq. ft
   b. 113.04 sq. ft d. 301.44 sq. ft

4. Which is the best estimate for the surface area of the Cone? (Use 3.14 for π.)



   a. 25.12 cm^2 c. 100.48 cm^2
   b. 50.24 cm^2 d. 150.72 cm^2

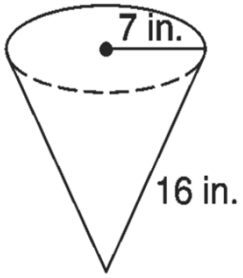
5. What is the lateral area of the cone? (Use 3.14 for π.)



   a. 43.96 sq. m c. 549.5 sq. m
   b. 153.86 sq. m d. 703.36 sq. m

6. A cone has a radius of 9 ft and a slant height of 22 ft. Which of the following is the best estimate for the surface area of the cone?
   a. 56.52 sq. ft c. 621.72 sq. ft
   b. 254.34 sq. ft d. 876.06 sq. ft

B. **Find the surface area of the cone. Write your solution and answer on the box. (2 points)**



C. **Sketch each solid. Indicate the correct dimensions. Then, find the surface area of each solid. Write your solution and answer in the box below.**

1. A cone has a radius of 3 m and a slant height of 7 m. (Use π = 3.14.)

2. A cone has a diameter of 20 in. and a slant height of 17.2 in. (Use π = 3.14.)