MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the surface area of the figure. Use 3.14 as an approximation for \( \pi \). Round your result to the nearest tenth.

1) A right circular cylinder with \( r = 6 \text{ cm} \), \( h = 9 \text{ cm} \)

A) 565.2 \text{ cm}^2  
B) 395.6 \text{ cm}^2  
C) 282.6 \text{ cm}^2  
D) 1017.4 \text{ cm}^2 

1) ________

2) A right circular cylinder with \( r = 7.5 \text{ in.} \), \( h = 5.9 \text{ in.} \)

A) 315.6 \text{ in.}^2  
B) 631.1 \text{ in.}^2  
C) 492.2 \text{ in.}^2  
D) 1042.1 \text{ in.}^2 

2) ________

3) A right circular cylinder with \( d = 14.2 \text{ m} \), \( h = 7.4 \text{ m} \)

A) 323.3 \text{ m}^2  
B) 481.6 \text{ m}^2  
C) 1171.3 \text{ m}^2  
D) 646.5 \text{ m}^2 

3) ________

4) A sphere with \( r = 10 \text{ cm} \)

A) 314.0 \text{ cm}^2  
B) 1256.0 \text{ cm}^2  
C) 418.7 \text{ cm}^2  
D) 4186.7 \text{ cm}^2 

4) ________

5) A sphere with \( r = 3.3 \text{ yd} \)

A) 34.2 \text{ yd}^2  
B) 136.8 \text{ yd}^2  
C) 45.6 \text{ yd}^2  
D) 150.5 \text{ yd}^2 

5) ________

6) A sphere with \( d = 8.8 \text{ yd} \)

A) 243.2 \text{ yd}^2  
B) 356.6 \text{ yd}^2  
C) 8.8 \text{ yd}^2  
D) 60.8 \text{ yd}^2 

6) ________

7) A sphere with \( r = \frac{2}{3} \text{ in.} \)

A) 1.9 \text{ in.}^2  
B) 5.6 \text{ in.}^2  
C) 0.9 \text{ in.}^2  
D) 1.4 \text{ in.}^2 

7) ________

8) A right circular cone with \( r = 5 \text{ cm} \), \( h = 7 \text{ cm} \) \( (S = \pi r \sqrt{r^2 + h^2 + \pi r^2}) \)

A) 213.6 \text{ cm}^2  
B) 109.9 \text{ cm}^2  
C) 153.9 \text{ cm}^2  
D) 78.5 \text{ cm}^2 

8) ________

9) A right circular cone with \( d = 8 \text{ cm} \), \( h = 6 \text{ cm} \)

A) 140.8 \text{ cm}^2  
B) 301.4 \text{ cm}^2  
C) 50.2 \text{ cm}^2  
D) 125.6 \text{ cm}^2 

9) ________
10) A stand cut from a right regular cone as shown below.

\[ S = \pi r \sqrt{r^2 + h^2} + \pi r^2 \]

Lateral surface area of entire cone = 219.71 ft\(^2\)
Lateral surface area of missing cone = 135.28 ft\(^2\)

A) 84.4 ft\(^2\)  B) 332.8 ft\(^2\)  C) 185.5 ft\(^2\)  D) 247.7 ft\(^2\)
Answer Key
Testname: G1--CW-51

1) A
2) B
3) D
4) B
5) B
6) A
7) B
8) A
9) A
10) D