 1. The formula for the volume of a cylinder with radius (r) and height (h) is: A. (pi r^2h) B. (2pi rh) C. (pi rh^2) D. (2pi r^2h) 	
 2. What is the surface area of a sphere with a radius of 7 cm? (Use (pi = frac{22}{7})) A. (616) cm² B. (308) cm² C. (154) cm² D. (462) cm² 	
3. A cube has a volume of (64) cm ³ . What is the length of one side? A. (4) cm B. (8) cm C. (16) cm D. (3) cm	
 4. The volume of a cone with a base radius of 3 cm and height of 4 cm is: A. (12pi) cm³ B. (36pi) cm³ C. (48pi) cm³ D. (4pi) cm³ 	
5. If the height of a cylinder is increased by 100% without changing the radius, its volume will:A. Remain the sameB. DoubleC. TripleD. Quadruple	
6. What is the total surface area of a hemisphere with radius 5 cm? (Use (pi = 3.14)) A. (157) cm ² B. (314) cm ² C. (235.5) cm ² D. (471) cm ²	
7. The formula for the curved surface area of a cone is: A. (pi rl) B. (pi r^2l) C. (pi r^2) D. (pi rl^2)	
8. A cylinder and a cone have the same base radius and height. The ratio of their volumes is:A. 1:1B. 2:1C. 3:1D. 1:3	
9. The volume of a frustum of a cone with height (h), lower radius (R), and upper radius (r) is: A. (frac{1}{3}pi h(R^2 + r^2 + Rr)) B. (pi h(R^2 + r^2 + Rr)) C. (frac{1}{3}pi h(R^2 + r^2)) D. (pi h(R + r))	
10. The diameter of a sphere is 6 cm. Its volume is (Use (pi = frac{22}{7})):	

A. (36pi) cm ³ B. (72pi) cm ³ C. (108pi) cm ³ D. (216pi) cm ³	
11. A cuboid has dimensions of 5 cm, 3 cm, and 4 cm. Its total surface area is: A. (94) cm ² B. (60) cm ² C. (120) cm ² D. (54) cm ²	
12. The lateral surface area of a right circular cylinder is (220) cm² and its radius is 7 cm. The height of the cylinder is: A. (10) cm B. (5) cm C. (15) cm D. (20) cm	
 13. If three metallic spheres of radii 6 cm, 8 cm, and 10 cm are melted to form a single sphere, the radius of the new sphere is: A. (12) cm B. (14) cm C. (16) cm D. (18) cm 	V
14. The ratio of the total surface area to the lateral surface area of a cylinder with height equal to the radius is:A. 2:1B.	
3:2 C. 4:3 D. 3:1	
 15. A cone with a radius of 3 cm and slant height of 5 cm has a volume of: A. (15pi) cm³ B. (30pi) cm³ C. (45pi) cm³ D. (9pi) cm³ 	
16. The formula for the volume of a sphere is: A. (frac{4}{3}pi r^3) B. (4pi r^2) C. (pi r^3) D. (frac{4}{3}pi r^2)	
17. A right circular cylinder with a base area of (154) cm ² and height 10 cm has a volume of: A. (1540) cm ³ B. (770) cm ³ C. (3850) cm ³ D. (3080) cm ³	
 18. The surface area of a cube is (150) cm². The length of its diagonal is: A. (5sqrt{3}) cm B. (25sqrt{3}) cm C. (10sqrt{2}) cm D. (5sqrt{2}) cm 	

weighs 8 g/cm³, then the weight of the pipe is:
A. (3.696) kg
B. (4.032) kg
C. (2.688) kg
D. (5.376) kg
20. If the radius of the base of a cylinder is halved and the height is doubled, the volume of the cylinder will be
A. The same
B. Halved
C. Doubled
D. Quadrupled
Surface Areas and Volumes Quiz Answer Key
1. A
2. A
3. A
4. B
5. B
6. B
7. A
8. C
9. A
10. D
11. B
12. A
13. B
14. B
15. B
16. A
17. A
18. A
19. A
20. A
Next, we will prepare the quiz for "Statistics." Let me know if you're ready to proceed!

19. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron