Area and Volume (III) Part 2

10. It is given that the surface area ratio of two solid spheres made by the same material is 9 : 16. If the weight of larger sphere is 448 g, then the weight of the smaller sphere is

A. 128 g

B. 189 g

C. 252 g

D. 336 g

11. There are two baseballs X and Y. The surface area of X is 19% smaller than Y. By what percentage is the radius of X smaller than Y?

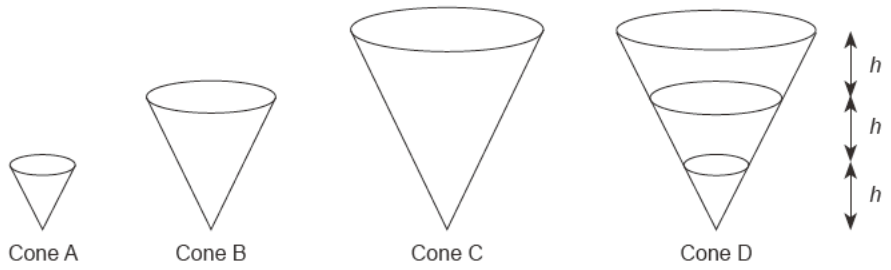
A. 9%

B. 10%

C. 19%

D. 20%

12. In the figure, there are three similar circular cones A, B and C. Jenny puts three cones together to form a mixture cone D. The difference of the heights of cones A and B and that of cones B and C, and the height of cone A are all h, where h is a constant. Find the ratio of volume of cone A : volume of cone B : volume of cone C.



A. 1 : 7 : 19

B. 1 : 8 : 27

C. $1 : h : h^2$

D. $1 : 8h : 27h^2$