


DELHI PUBLIC SCHOOL, MIYAPUR

SECTION-B

Write True/ False: (Take $\pi \approx 3.14$)

Let's learn some facts about a sphere




Surface Area = $4 \times \pi \times r^2$

Volume = $(\frac{4}{3}) \times \pi \times r^3$

sphere

- It is perfectly symmetrical
- All points on the surface are at the same distance "**r**" from the center
- It has **no** edges or vertices (corners)
- It has one **surface** (not a "face" as it isn't flat)
- It is **not** a polyhedron

The sphere appears in nature when a surface wants to be as small as possible. Of all the shapes, a sphere has the smallest surface area for a fixed volume. Or putting it in another way, it can contain the greatest volume for a fixed surface area.



11. Surface area of a sphere, whose radius is 2.5 cm is 72.5 cm^2 .

False

12. Volume of a sphere, whose radius is 6 mm is 904.32 mm^3 .

True

13. Surface area of a solid hemisphere (Half of sphere) with radius 'r' is $3\pi r^2$.



False



14. The sum of two perfect squares is a perfect square.

False



15. 363×81 is a perfect cube.

False



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