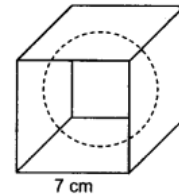


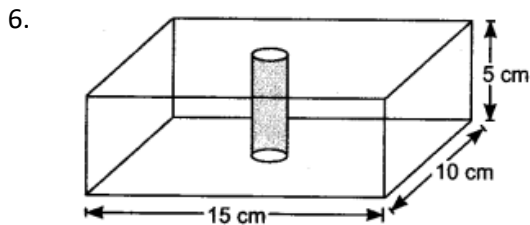
- If the area of three adjacent faces of cuboid are X, Y and Z respectively, then the volume of cuboid is:
 (a) XYZ (b) 3XYZ (c) \sqrt{XYZ} (d) $3\sqrt{XYZ}$
- The volume (in cm^3) of the largest right circular cone that can be cut off from a cube of edge 4.2 cm is:
 (a) 9.7 (b) 72.6 (c) 58.2 (d) 19.4
- Assertion:** Savitri had to make a model of a cylindrical kaleidoscope for her science project. She wanted to use chart paper to make the curved surface of the kaleidoscope. 550cm^2 would be the area of chart paper required by her, if she wanted to make a kaleidoscope of length 25 cm with a 3.5 cm radius.

Reason: Area of chart paper required = curved surface area of the kaleidoscope = $2\pi rh$

- Both Assertion and Reason are correct and reason is correct explanation for the.
 - Both Assertion and Reason are false but reason is not correct explanation for assertion.
 - Assertion is correct but reason is false.
 - Both Assertion and reason are false.
- The largest possible sphere is carved out of a wooden solid cube of side 7 cm. Find the volume of the wood left.

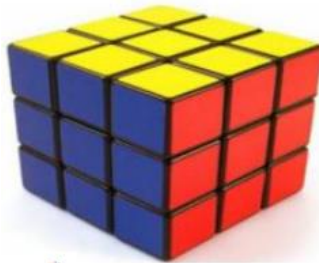


- A hemispherical bowl of internal diameter 36 cm contains liquid. This liquid is filled into 72 cylindrical bottles of diameter 6 cm. Find the height of the each bottle, if 10% liquid is wasted in this transfer.



In figure, from a cuboidal solid metallic block of dimensions 15 cm X 10 cm X 5 cm, a cylindrical hole of diameter 7 cm is drilled out. Find the surface area of the remaining block.

- On a Sunday, your Parents took you to a fair. You could see lot of toys displayed, and you wanted them to buy a RUBIK'S cube and strawberry ice-cream for you. Observe the figures and answer the questions.



- What is the length of the diagonal if each edge measures 6cm?
- What is the curved surface area of hemisphere (ice cream) if the base radius is 7cm?
- What is the total surface area of cone with hemispherical ice cream?