1. The sum of length breadth and height of a cuboid is 19 m and the length of its diagonal is 11 m . The outer surface area of the cuboid is to be covered with square tiles of side 25 cm . How many tiles are required when there is no wastage.
2. The diameter of a road roller is 140 cm and it's length is 2.2 m . It makes 400 complete revolutions to move once over to level a stretch of levelled in $\mathrm{m}^{2}$. Find the area of the stretch.
3. A corn cob shaped like a right circular cone, has the radius of its broadest end as 2.1 cm and length as 20 cm . If each $1 \mathrm{~cm}^{2}$ of the surface of the cob carries and average of four grains. Find the number of grains on the entire cob.
4. A hemispherical dome, open at the base, is made from a sheet of fibre. If the radius of hemispherical dome is 40 cm and $13 / 170$ of the bire sheet actually used was wasted in making the dome. Find the cost of dome at the rate of Rs $35 / 100 \mathrm{~cm}^{2}$.
5. A river 3.5 m deep and 28 m wide is flowing at the rate of $2.4 \mathrm{~km} / \mathrm{h}$. How many litres of water will flow into the sea in 10 minutes.
6. A hollow metallic cylinder is made from a metallic sheet of 2.6 centimetre thickness. The outer radius of the cylinder is 3.8 cm and length is 50 centimetre. Find the volume of the metal.
7. A heap of wheat is the form of a cone of a vertical height 3 metres and volume $86.625 \mathrm{~m}^{3}$. The heap is to be covered by a sheet of canvas. Find the area of canvas which is just sufficient to cover the heap.
8. 64 solid metallic spheres, each of radius 0.15 centimetre are melted to form a single bigger sphere. Find the radius of the bigger sphere.
9. A lead pencil consists of a cylinder of wood with a solid cylinder of graphite filled in the interior. The diameter of the pencil is 7 mm and the diameter of graphite is 1 mm . If the length of the pencil is 14 centimetre, find the volume of wood and that of the graphite.
10. How many rice bags each carrying $196 \mathrm{~m}^{3}$ of rice can be emptied into a conical tent of base radius 8.4 m and height 87.5 m ?
