

Mensuration: Worksheet -6

1. The base of the right pyramid is a square of side 16 cm and height 15cm. It's volume is _____.
2. If the volume of a prism is $1920\sqrt{3}$ cm³ and the side of the equilateral base is 16 cm, then the height of the prism is : _____ []
 a) 19 cm b) 20 cm c) 30 cm d) 40 cm
3. If six cubes of 10 cm edge are joined end to end then the total surface area of the resulting solid is _____ []
 a) 3600 cm² b) 3000 cm² c) 2600 cm² d) 2400 cm²
4. Each edge of a cube is increased by 50% . The percent of increase in The surface area of the cube is []
 a) 50 b) 125 c) 1750 d) 300
5. The side of a regular hexagon is 'p' cm then its area is []
 a) $\frac{\sqrt{3}}{2} p^2$ cm² b) $\frac{3\sqrt{3}}{2} p^2$ cm² c) $2\sqrt{3} p^2$ cm² d) $6 p^2$ cm²
6. A cuboid has a volume of 64000 cm³. If the ratio of its sides are 1 : 2: 4 then the largest side is _____.
7. If the numerical value of the surface area of a cube is equal to the Numerical value of the volume of the cube then the numerical value of area of each face of the cube is _____ []
 a) 1 b) 6 c) 12 d) 36
8. If a regular square pyramid has a base of side 8 cm and height of 30 cm then its volume is _____.



9. If l , b and h of a cuboid are increased, decreased and increased by 1%, 3% and 2% respectively then the volume of the cuboid _ _ _ _ _
- a) increases b) decreases []
- c) increases or decreases depending on original dimensions
- d) can't be calculated with given data
10. The perimeter of one face of a cube is 20 cm then its volume is []
- a) 216 cm^3 b) 1000 cm^3 c) 125 cm^3 d) 64 cm^3

