#### Tenth Grade - Geometry

1) If the radius of a cone is multiplied by 1/3 and height of the cone is tripled then the volume of new cone:

- Increases by one fourth
- Remains the same
- Decreases thrice
- Increases by one third

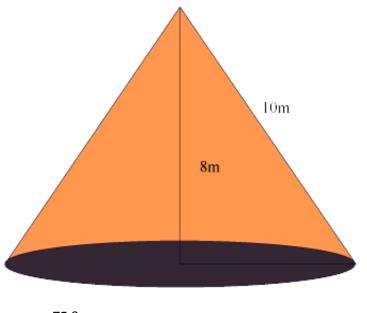
2) If 3:2 is the ratio of radius of two right circular cones and 1:1 is the ratio of their volumes. Then what will be the ratio of their heights?

- 4:5
- 1:5
- 4:9
- 2:3

3) If 1:2 and 1:3 are the ratios of radius and height of two different cones then which of the following is the ratio of their volumes?

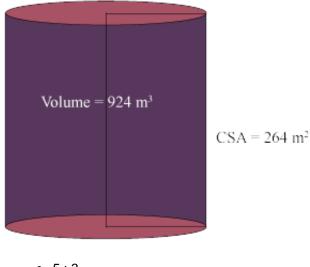
- 2:13
- 3:14
- 1:16
- 1:12

4) The slant height of a right circular cone is 10 m and its height is 8 m. Find the area of its curved surface.



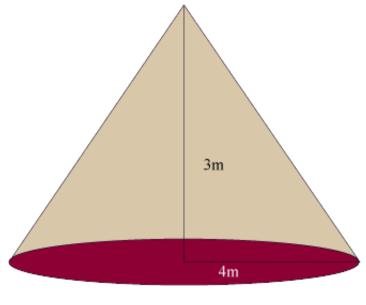
- 75?
- 80 ?90 ?
- <u>90</u>?

5) The curved surface area of a cylindrical pillar is 264 m<sup>2</sup> and its volume is 924 m<sup>3</sup>. Find the ratio of its diameter to its height



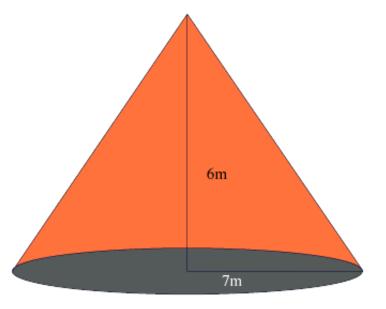
- 5:3
- 7:3
- 7:2
- 6:3

6) Find the surface area of cone if r = 4 m and h = 3 m.

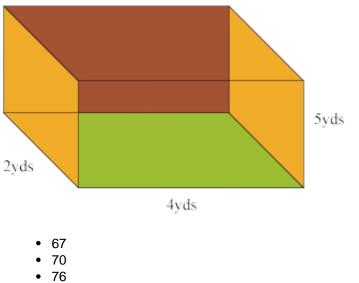


- 100.8
- 129.4
- 113.1
- 111.3

# 7) Find the surface area of cone if r = 7 m and h = 6 m.



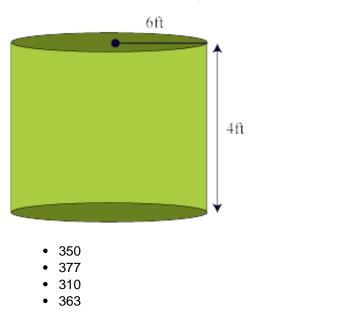
- 413.4
- 400.6
- 345.8
- 422.4



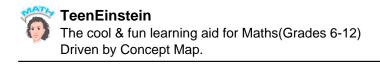
8) Find the surface area of cuboid if I = 4 yds, w = 2 yds, and h = 5 yds

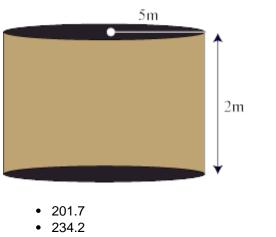
• 50

## 9) Find the surface area of Cylinder if r = 6 ft and h = 4 ft



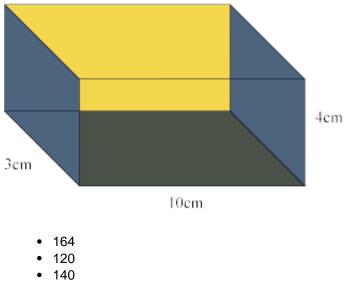
### 10) Find the surface area of Cylinder if r = 5 cm and h = 2 cm





- 219.9
- 212.4

### 11) Find the surface area of a 10cm × 4cm × 3cm brick



• 135

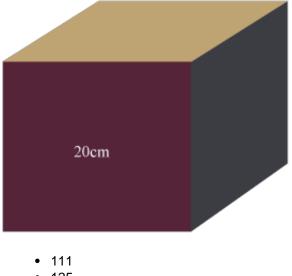
12) A cistern 6 m long and 4 m wide contains water up to a breadth of 1 m 25 cm. Find the total area of the wet surface

- 47
- 46
- 49
- 36

13) A swimming pool 9 m wide and 12 m long is 1 m deep on the shallow side and 4 m deep on the deeper side. Its volume is

- 270
- 215
- 234
- 245

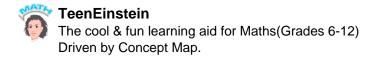
14) The perimeter of one face of a cube is 20 cm. Its volume will be:



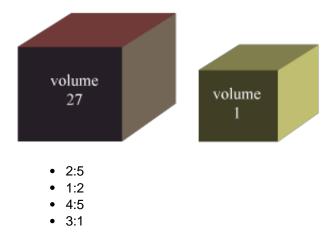
- 125
- 115
- 130

15) The cost of the paint is Rs 36.50 per kg. If 1 kg of paint covers 16 square feet, how much will it cost to paint outside of a cube having 8 feet each side.

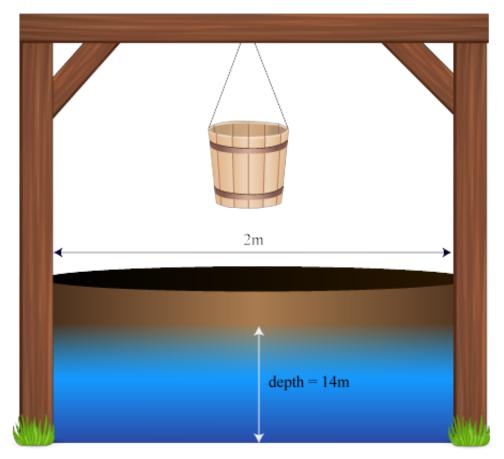
- 876
- 798
- 768
- 815



16) If the volume of two cubes are in the ratio 27:1, the ratio of their edges is:



17) A circular well with a diameter of 2 meters, is dug to a depth of 14 meters. What is the volume of the earth dug out

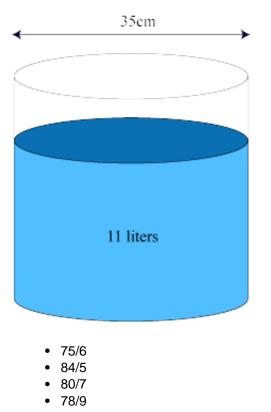


- 49
- 66
- 44
- 79

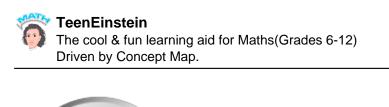
18) Two right circular cylinders of equal volumes have their heights in the ratio 1:2. Find the ratio of their radii.

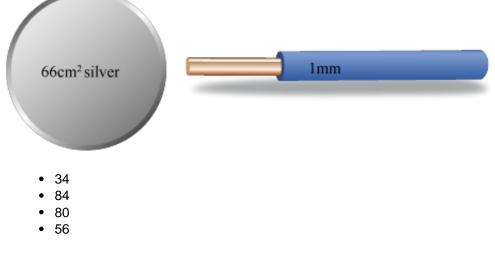
- 1:?2
- 1:2
- 2:1
- ?2:1

19) A cylindrical tank of diameter 35 cm is full of water. If 11 liters of water is drawn off, the water level in the tank will drop by

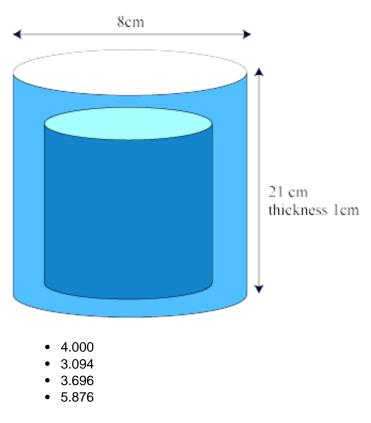


20) 66 cubic centimeters of silver is drawn into a wire 1 mm in diameter. The length if the wire in meters will be:

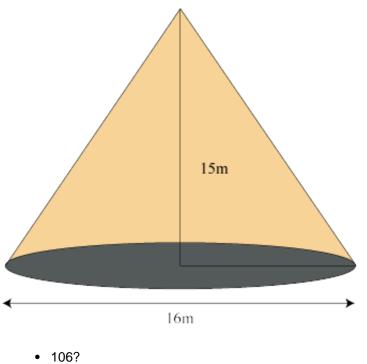




21) A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weights 8g/cm cube, then find the weight of the pipe.

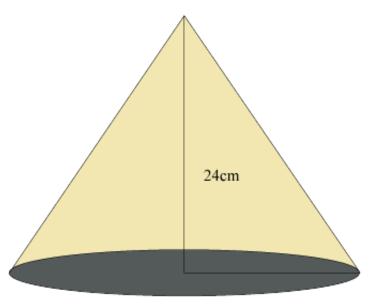


22) The curved surface of a right circular cone of height 15 cm and base diameter 16 cm is:



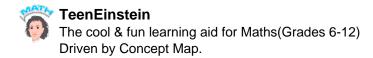
- 126?
- 136?
- 186?

23) If a right circular cone of height 24 cm has a volume of 1232 cm cube, then the area of its curved surface is :



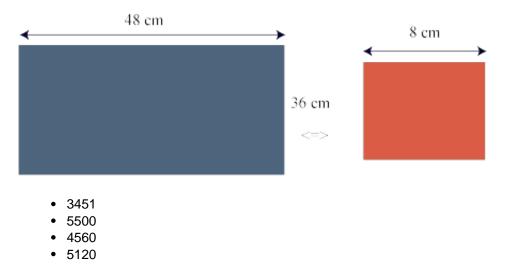
volume=1232cm cube

- 500
- 610
- 550

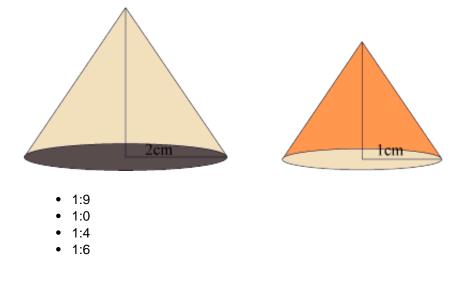


• 596

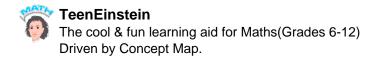
24) A metallic sheet is of rectangular shape with dimensions 48 m × 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m cube) is:



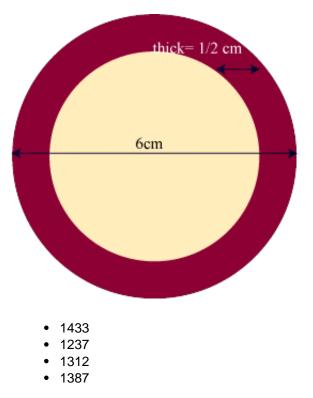
25) A hollow spherical metallic ball has an external diameter 2 cm and is 1 cm thick. The volume of metal used in the metal is:



26) A hollow spherical metallic ball has an external diameter 6 cm and is 1/2 cm thick. The volume of



#### metal used in the metal is:



27) The surface area of a sphere is same as the curved surface area of a right circular cylinder whose height and diameter are 12 cm each. The radius of the sphere is:

- 4
- 6
- 3
- 9

28) 12 spheres of the same size are made from melting a solid cylinder of 16 cm diameter and 2 cm height. Find the diameter of each sphere.

- 3
- 9
- 7
- 4

29) A hemisphere and a cone have equal bases. If their heights are also equal, then the ratio of their curved surface will be :

- ?2:1
- 2:1
- ?2:2
- ?2:3

30) The volume of the largest right circular cone that can be cut out of a cube of edge 7 cm is:

- 57
- 86
- 79
- 80