

# Comparison Of Quantities Questions Overview

Comparison Of Quantities Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Comparison Of Quantities Questions.

## Question

The ratio of the diameter of base and height of a cylinder is 2 : 3. Find the radius of the cylinder if the approximate volume of cylinder is 3234.01 cm<sup>3</sup>?

Difficulty : Moderate

Average Time : 33 Seconds

Options :

1. 21/2 cm
2. 7/2 cm
3. 21 cm
4. 7 cm
5. 14 cm



## Solution

The correct answer is **option 4** i.e. **7 cm**

Let diameter of base be 2x cm & height of cylinder be 3x cm

$$\text{radius} = 2x/2 = x \text{ cm}$$

We know,

$$\text{Volume of cylinder} = \pi r^2 h \text{ (r radius, h height)}$$

ATQ,

$$\pi x^2 \times 3 = 3234$$

$$22/7 \times x^2 \times 3 = 3234$$

$$x = 7 \text{ cm}$$

Radius = 7cm

