7.5

r.suhrit2017

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1 Chapter Examples

Area=πr^2 Here, the area is iquivalent to the area of the largest semicircle subtracted by the area of the smallest semi circle added with the area od the remaining semicircle. Therefore:

$$Area = \pi(60mm)^2 + \pi(40mm)^2 - \pi(20mm)^2 = 4800\pi mm^2$$
$$\therefore \textbf{Volume} = 48\pi mm^2 \cdot 1.6mm = 7680\pi mm^3$$

This value can be approximated to 24127.43mm cubed, or 24100 mm cubed to three sig. figures.