

Fill in the Blanks

Volume and Surface Area of Cones

Radius r	Vertical Height h	Slanted Height l	Volume in terms of π	Volume to 3 s.f.	Curved Surface Area in terms of π	Total Surface Area in terms of π	Volume : Total Surface Area
5 cm	12 cm	13 cm	$100\pi \text{ cm}^3$	314 cm^3	$65\pi \text{ cm}^2$	$90\pi \text{ cm}^2$	10 : 9
6 cm	8 cm	10 cm	$96\pi \text{ cm}^3$	302 cm^3	$60\pi \text{ cm}^2$	$96\pi \text{ cm}^2$	1 : 1
16 mm	30 mm	34 mm	$2560\pi \text{ mm}^3$	8040 mm^3	$544\pi \text{ mm}^2$	$800\pi \text{ mm}^2$	16 : 5
0.7 m	2.4 m	2.5 m	$\frac{49}{125}\pi \text{ m}^3$	1.23 m^3	$\frac{7}{4}\pi \text{ m}^2$	$\frac{56}{25}\pi \text{ m}^2$	7 : 40
9 cm	12 cm	15 cm	$324\pi \text{ cm}^3$	1020 cm^3	$135\pi \text{ cm}^2$	$216\pi \text{ cm}^2$	3 : 2
2 m	2.1 m	2.9 m	$\frac{14}{5}\pi \text{ cm}^3$	8.80 m^3	$\frac{29}{5}\pi \text{ m}^2$	$\frac{49}{5}\pi \text{ m}^2$	2 : 7
12 mm	16 mm	20 mm	$768\pi \text{ mm}^3$	2410 mm^3	$240\pi \text{ mm}^2$	$384\pi \text{ mm}^2$	2 : 1
3 cm	4 cm	5 cm	$12\pi \text{ cm}^3$	37.7 cm^3	$15\pi \text{ cm}^2$	$24\pi \text{ cm}^2$	1 : 2
8 cm	15 cm	17 cm	$320\pi \text{ cm}^3$	1010 cm^3	$136\pi \text{ cm}^2$	$200\pi \text{ cm}^2$	8 : 5