

Answers to volume practice problems

Boxes

#	L	W	H	V	#	L	W	H	V
1	1 cm	6 cm	16 cm	96 cm³	9	2 ¼ in	3 ⅛ in	3 in	21.1 in³
2	3 cm	2.5 cm	22 cm	165 cm³	10	7 m	2 1/3 m	16 m	261.3 m³
3	2 ½ in	3 ½ in	6 in	52 ½ in ³	11	9 ft	3 ft	7 ½ ft	202.5 ft ³
4	2 in	4.5 in	2.5 in	22.5 in³	12	2 m	18 m	1 m	36 m³
5	2 m	10 m	5 m	100 m ³	13	5 in	2 ½ in	1 ¼ in	15.6 in³
6	3 ¼ in	5 in	6 in	97.5 in ³	14	14 cm	2 cm	22 cm	616 cm³
7	10 in	1 in	55 in	550 in ³	15	3 ⅝ in	3 ½ in	1 ½ in	17.7 in ³
8	8.5 ft	17 ft	6 ft	867 ft³					

Cylinders

#	H	r	V	#	H	r	V
1	10 cm	2.5 cm	196.4 cm³	11	12 cm	13 cm	6371 cm³
2	20 cm	5 cm	1571 cm³	12	6 ft	2.5 ft	117.8 ft³
3	71 mm	10 mm	22305 mm³	13	3 ½ in	3 ½ in	134.6 in³
4	21 m	1 ½ m	148.4 m³	14	45 cm	4 cm	2261 cm³
5	6.9 in	2.9 in	182.3 in³	15	2.6 m	16 m	2091 m³
6	5.9 cm	7.9 cm	1156.2 cm³	16	7.7 ft	8.3 ft	1666 ft³
7	6.5 ft	10 ft	2041 ft³	17	11.8 in	9.3 in	3204.7 in ³
8	2 ½ in	9 ⅛ in	654 in³	18	3 in	6.5 in	397 in ³
9	5 ⅘ ft	17.5 ft	5580.25 ft³	19	15.9 ft	5 ft	1253 ft ³
10	3 ¼ in	3 ⅝ in	116.3 in³	20	2 ½ in	2.76 in	60 in ³