

Density of solids

Name: _____

Question: Which cube will have the greatest density?

Data Table:

Cube #	Mass (g)	Volume (cm ³)	Density (g/cm ³)	Identity of cube
1	14.0 g	15.6 cm ³		
2	143.4 g	15.6 cm ³		
3	138.8 g	15.6 cm ³		
4	127.4 g	15.6 cm ³		
5	43.5 g	15.6 cm ³		
6	19.3 g	13.8 cm ³		
7	17.8 g	13.8 cm ³		
8	12.5 g	15.6 cm ³		
9	6.0 g	14.4 cm ³		

Conclusion: Least dense to most dense (use numbers):

--	--	--	--	--	--	--	--	--

Identify each of the cubes using the information below:

Material	Density
Brass	8.9 g/cm ³
Aluminum	2.8 g/cm ³
Copper	9.2 g/cm ³
Oak	0.6-0.9 g/cm ³
Poplar	0.3-0.5 g/cm ³
PVC	1.4 g/cm ³
Acrylic	1.3 g/cm ³
Steel	8.2 g/cm ³
Nylon	0.9 g/cm ³