

CONVERSION TABLE

Diameter of a circle	X 3.1416	=Circumference
Radius of a circle	X 6.283185	=Circumference
Square of the radius of a circle	X 3.1416	=Area
Square of the diameter of a circle	X 0.7854	=Area
Square of the circumference of a circle	X 0.07958	=Area
Half the circumference of a circle	X half its diameter	=Area
Circumference of a circle	X 0.159155	=Radius
Square root of the area of a circle	X 0.56419	=Radius
Circumference of a circle	X 0.31831	=Diameter
Square root of the area of a circle	X 1.12838	=Diameter
		=Side of an inscribed equilateral triangle
Diameter of a circle	X 0.86	
		=Side of an inscribed square
Circumference of a circle	X 0.225	
		=Side of an inscribed square
Diameter of a circle	X 0.7071	
		=Side of an equal square
Circumference of a circle	X 0.282	
		=Side of an equal square
Diameter of a circle	X 0.8862	
Multiplying both diameter and .7854 together		=Area of an ellipse
Base of triangle	X one-half the altitude	=Area
Surface of a sphere	X one-sixth of the diameter	=Solidity
Circumference of a sphere	X its diameter	=Surface
Square of the diameter of a sphere	X 3.1416	=Surface
Square of the circumference of a sphere	X 0.3183	=Surface
Cube of the diameter of a sphere	X 0.5236	=Solidity
		=Side of a inscribed cube
Radius of a sphere	X 1.1547	
Cube of the circumference of a sphere	X 0.016887	=Solidity
Square root of (one third of the square of) the diameter of a sphere		=Side of a inscribed cube
		=Solidity of a cone or pyramid, whether round, square or triangular.
Area of its base	X one-third of its altitude	
Area of one of its sides	X 6	=Surface of a cube
Altitude of a trapizoid	X one-half the sum of its parallel sides	=Area

WEIGHTS OF MATERIALS

Material	Pound per Cubic Foot	Specific Gravity (Water = 1.00)
Platinum	1338.48	21.45
Gold	1206.09	19.32
Tungsten	1204.32	19.3
Mercury, Fluid	845.27	13.546
	704.50 to	
Lead, Wire	707.62	11.29 to 11.34

Silver	655	10.5
Copper, Cast	555.98	8.91
Copper	556.61	8.92
German Silver	527.28	8.45
Nickel, Cast	555.58	8.9
Phosphor Bronze	555.98	8.91
Bronze	544	8.73
Molybdenum	636.48	10.2
Brass, Wire	524.16	8.4
Brass, Cast	505	8.10
Steel	489.6	7.8
Iron, Wrought	486.93	7.8
Iron, Cast	443.21	7.1
Tin	454.27	7.28
Zinc, Sheet	445.54	7.14
Antimony	415.94	6.62
Aluminum, Wrought	169.17	2.71
Aluminum, Cast	160	2.56
Granite	156 to 157	2.5 to 3
Glass	149 to 187	2.4 to 3
Porcelain	149.13	2.39
Sandstone	143.58	2.3
Sulphoric Acid (Conc.)	114.9	1.84
Ebonite	71.71	1.15
Nitric Acid	76.2	1.22
Asbestos Board	74.91	1.2
Pure Water	62.425	1.000
Oil, Inseed	58.31	0.935
Oil, Turpentine	54.3	0.87
Petroleum	54.9	0.88
Naphtha	53.1	0.85
Benzine	53.1	0.85
Oak	49.94	0.80
Paper	43 to 68	0.7 to 1.1
Ether, Sulfuric	44.9	0.713
Walnut	43.69	0.7
White Pine (seasoned)	31.21	0.5
Cork	10.15	0.16 to 0.24