

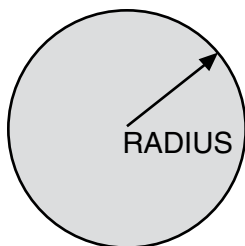
PERIMETERS AND AREAS OF COMMON SHAPES

Circle

Perimeter = $2 \times \text{PI} \times \text{RADIUS}$

Area = $\text{PI} \times \text{RADIUS}^2$

PI = 3.1416



Rectangle

Perimeter = $2 \times (\text{LENGTH} + \text{WIDTH})$

Area = $\text{LENGTH} \times \text{WIDTH}$

LENGTH



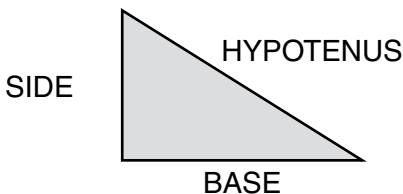
WIDTH

Right Triangle

Perimeter = $\text{BASE} + \text{SIDE} + \text{HYPOTENUSE}$

Area = $1/2 \times \text{BASE} \times \text{SIDE}$

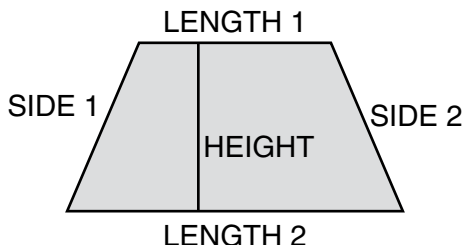
HYPOTENUSE = $\sqrt{\text{BASE}^2 + \text{SIDE}^2}$



Trapezoid

Perimeter = $\text{LENGTH1} + \text{LENGTH2} + \text{SIDE1} + \text{SIDE2}$

Area = $\text{HEIGHT}/2 \times (\text{LENGTH1} + \text{LENGTH2})$



COMMON CONVERSION FACTORS

Multiply	By	To Obtain
Acres	43,560	Square feet
Acres	4,047	Square meters
Acres	0.001562	Square miles
Acres	4,840	Square yards
Ampere-hours	3,600	Coulombs
Ampere-hours	0.03731	Faradays
Atmospheres	1.01325	Bars
Atmospheres	76	Cm of mercury
Atmospheres	33.90	Feet of water
Atmospheres	101,325	Pascals
Atmospheres	14.70	Pounds/square inch
Bags (cement)	94	Pounds
Barrels (cement)	376	Pounds
Barrels (dry)	7,056	Cubic inches
Barrels (dry)	105	Quarts
Barrels (liquid)	32	Gallons
Barrels (oil)	42	Gallons
Bars	0.9869	Atmospheres
Bars	14.50	Pounds/square inch
Bars	750	Millimeters of mercury
Board feet	144	Cubic inches
BTU	778.2	Foot-pounds
BTU	3.93x10 ⁽⁻⁴⁾	Horsepower-hours
BTU	1,055	Joules
BTU	2.931x10 ⁽⁻⁴⁾	Kilowatt-hours
BTU/hour	0.2162	Foot-pounds/second
BTU/hour	0.2931	Watts
Bushels	2,150.4	Cubic inches
Bushels	4	Pecks
Bushels	32	Quarts (dry)
Calories (gram)	0.003966	BTU
Calories (gram)	1.559x10 ⁽⁻⁶⁾	Horsepower-hours
Candela/square inch	0.4869	Lamberts
Carats	3.086	Grains
Centimeters	0.03281	Feet
Centimeters	0.3937	Inches
Centimeters per second	1.969	Feet per second
Centipoise	0.001	Pascal-seconds
Chains	792	Inches
Circular mils	7.854x10 ⁽⁻⁷⁾	Square inches
Circular mils	5.067x10 ⁽⁻⁶⁾	Square centimeters
Cubic centimeters	3.531x10 ⁽⁻⁵⁾	Cubic feet
Cubic centimeters	2.642x10 ⁽⁻⁴⁾	Gallons
Cubic centimeters	0.001	Liters
Cubic feet	7.48052	Gallons
Cubic feet	62.43	Pounds of water
Cubic feet	1,728	Cubic inches
Cubic yards	27	Cubic feet
Cubic yards	46,656	Cubic inches
Cubic yards	202	Gallons
Cycles per second	1	Hertz
Days	86,400	Seconds
Degrees (angle)	60	Minutes
Degrees (angle)	0.01745	Radians
Degrees (angle)	3,600	Seconds
Degrees (celsius)	((0)Cx9/5)+32	Degrees (fahrenheit)
Degrees (fahrenheit)	((0)F-32)x5/9	Degrees (celsius)
Degrees (celsius)	(0)C + 273.15	Degrees Kelvin
Drams	27.34375	Grains
Drams	1.771845	Grams
Dynes	10 ⁽⁻⁷⁾	Joules/centimeter
Dynes	10 ⁽⁻⁵⁾	Newtons
Dynes/sq centimeter	10 ⁽⁻⁶⁾	Bars
Ergs	7.376x10 ⁽⁻⁸⁾	Foot-pounds
Ergs/second	1.341x10 ⁽⁻¹⁰⁾	Horsepower
Faradays	26.8	Ampere-hours
Faradays/second	96,490	Amperes

Multiply

Fathoms	1.8288
Fathoms	6
Feet	30.48
Feet	12
Feet	1.894x10(-4)
Feet/minute	0.5080
Feet/minute	0.01136
Feet/sec/sec	30.48
Foot candles	10.764
Furlongs	660
Furlongs	40
Gallons	0.1337
Gallons	0.004951
Gallons	1
Gallons	3.785
Gallons	8.3453
Gallons	8
Gallons/minute	8.0208
Gallons/minute	0.06308
Gills	0.1183
Grains	0.0648
Grams	0.03527
Grams	0.002205
Hands	4
Hectares	2.471
Hertz	1
Hogsheads	63
Horsepower	550
Horsepower	0.7457
Inches	2.54
Inches	1,000
Inches of mercury	0.03342
Inches of mercury	70.73
Inches of water	0.07355
Inches of water	25.4
Inches of water	0.03613
Joules	2.778E(-7)
Kilograms	1,000
Kilograms	2.205
Kilograms/square meter	0.001422
Kilometers	3,281
Kilometers	0.6214
Kilometers/hour	0.6214
Kilowatt-hours	3,412
Kilowatt-hours	2,665,000
Kilowatts	1.341
Knots	1.151
Knots	1
Lamberts	0.3183
Lamberts	2.054
Leagues	3
Light years	5.9E(12)
Links (surveyors)	7.92
Liters	1,000
Liters	61
Liters	0.2642
Lumens	0.07958
Lumens	0.001496
Lumens/sq foot	1
Lux	0.0929
Meters	3.281
Microns	10(-6)
Miles	5,280
Miles	1.609
Miles	0.8684
Miles/gallon	0.4251
Miles/hour	88
Miles/hour	1.609
Miles/hour	0.8684
Milligrams	0.01543
Millimeters	0.03937

By**To Obtain**

Meters
Meters
Centimeters
Inches
Miles
Centimeters/second
Miles/hour
Centimeters/sec/sec
Lumens/sq meter
Feet
Rods
Cubic feet
Cubic yards
Imperial gallons
Liters
Pounds of water
Pints
Cubic feet/hour
Liters/second
Liters
Grams
Ounces
Pounds
Inches
Acres
Cycles/second
Gallons
Foot-pounds/second
Kilowatts
Centimeters
Mils
Atmospheres
Pounds/square foot
Inches of mercury
Kilograms/square meter
Pounds/square inch
Kilowatt-hours
Grams
Pounds
Pounds/square inch
Feet
Miles
Miles/hour
BTU
Foot-pounds
Horsepower
Miles/hour
Nautical miles/hour
Candela/sq cm
Candela/sq inch
Nautical miles
Miles
Inches
Cubic centimeters
Cubic inches
Gallons
Spherical candle power
Watts
Foot-candles
Foot-candles
Feet
Meters
Feet
Kilometers
Nautical Miles
Kilometers/liter
Feet/minute
Kilometers/hour
Knots
Grains
Inches

Multiply	By	To Obtain
Millimeters of mercury	0.01934	Pounds/sq inch
Miner's inches	1.5	Cubic feet/minute
Minutes (angle)	0.01667	Degrees
Minutes (angle)	2.909E(-4)	Radians
Minutes (angle)	60	Seconds
Newtons	0.102	Kilograms
Newtons	0.2248	Pounds
Newtons/sq meter	1	Pascals
Ounces	28.35	Grams
Ounces	0.0625	Pounds
Ounces	0.9115	Troy ounces
Ounces (fluid)	1.805	Cubic inches
Pecks	0.25	Bushels
Pecks	537.605	Cubic inches
PI	1	3.14159
Pints	0.125	Gallons
Points	0.01384	Inches
Pound-foot	0.1383	Meter-kilograms
Poundals	0.03108	Pounds
Pounds	453.59	Grams
Pounds	4.448	Newtons
Pounds	16	Ounces
Pounds of water	0.1198	Gallons
Pounds/cubic inch	27.68	Grams/cu centimeter
Pounds/sq foot	4.883	Kilograms/square meter
Pounds/sq inch	0.06804	Atmospheres
Pounds/sq inch	2.036	Inches of mercury
Pounds/sq inch	6,897	Pascals
Quadrants (angle)	90	Degrees
Quarts (dry)	1.164	Quartz (liquid)
Quarts (liquid)	0.9463	Liters
Quintals	220.5	Pounds
Quires	25	Sheets
Radians	57.3	Degrees
Radians	3,438	Minutes
Reams	500	Sheets
Revolutions	360	Degrees
Revolutions/second	360	Degrees/second
Rods	0.25	Chains
Rods	16.5	Feet
Scruples	20	Grains
Slugs	15	Kilograms
Square centimeters	197,300	Circular mils
Square centimeters	0.155	Square inches
Square feet	144	Square inches
Square feet	0.1111	Square yards
Square inches	1,273,000	Circular mils
Square inches	6	Square centimeters
Square inches	0.006944	Square feet
Square kilometers	247.1	Acres
Square kilometers	0.3861	Square miles
Square meters	10.76	Square feet
Square miles	640	Acres
Square miles	27,878,400	Square feet
Square millimeters	0.01	Square centimeters
Square mils	1.273	Circular mils
Square yards	9	Square feet
Stokes	0.0001	Square meters/second
Tons	907.18	Kilograms
Tons	2,000	Pounds
Tons	0.89286	Long tons
Tons	0.90718	Metric tons
Torr	0.001333	Bars
Torr	133.3	Pascals
Watt-hours	3.412	BTU
Watt-hours	860.4	Calories (gram)
Watts	0.001341	Horsepower
Watts	0.7376	Foot-pounds/second
Yards	3	Feet
Yards	0.9144	Meters