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Formulas and Conversions

Geometric Formulas

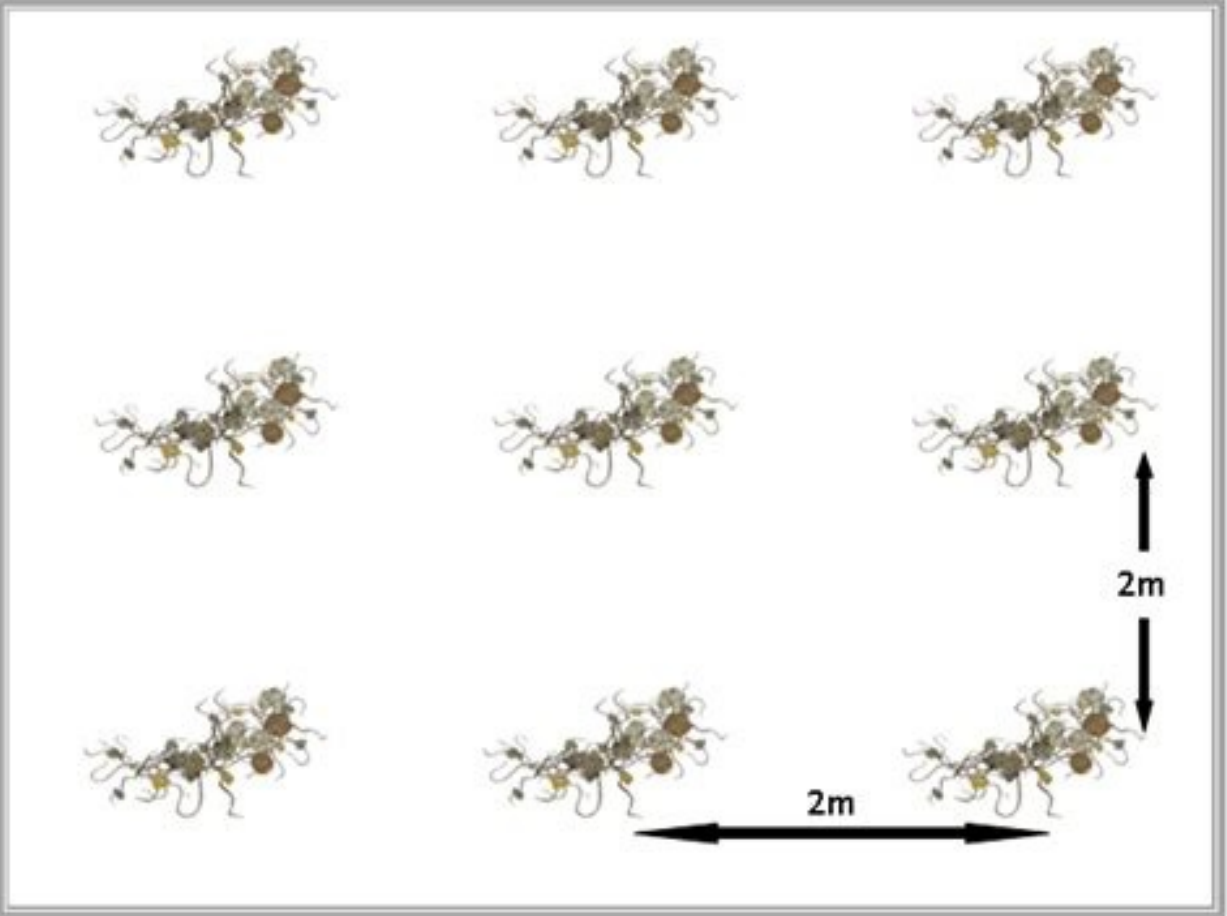
Sought	Given	Formula
Area of:		
Circle	Radius = r	πr^2
Sector of Circle	Radius = r ; Arc = L	$rL / 2$
Segment of Circle	Chord = C ; Middle Ordinate = M	$\frac{2}{3} CM$ (approximate)
Ellipse	Semi-axes = a and b	πab
Surface of:		
Cone	Radius of Base = r ; Slant Height = s	πrs
Cylinder	Radius = r ; Height = h	$2 \pi rh$
Sphere	Radius = r	$4 \pi r^2$
Zone	Radius of Sphere = r ; Height of Zone = h	$2 \pi rh$
Volume of:		
Prism or Cylinder	Area of Base = b ; Height = h	bh
Pyramid or Cone	Area of Base = b ; Height = h	$bh / 3$
Frustum of Pyramid or Cone	Area of Bases = b and b' ; Height = h	$h / 3 (b + b' + \sqrt{bb'})$
Sphere	Radius = r	$\frac{4}{3} \pi r^3$

Minutes in Decimals of a Degree

1'	.0167	11	.1833	21	.3500	31	.5167	41	.6833	51	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Inches in Decimals of a Foot

$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167



1 square inch (sq in.) = 6.4516 + square centimeters (sq cm)

1 square foot (sq ft) = 144 sq in.

= 0.0929 + square meter (sq m)

1 square yard (sq yd) = 9 sq ft

= 0.8361 – sq m

1 square meter (sq m) = 10.7639 sq ft

= 1.1960 + sq yd

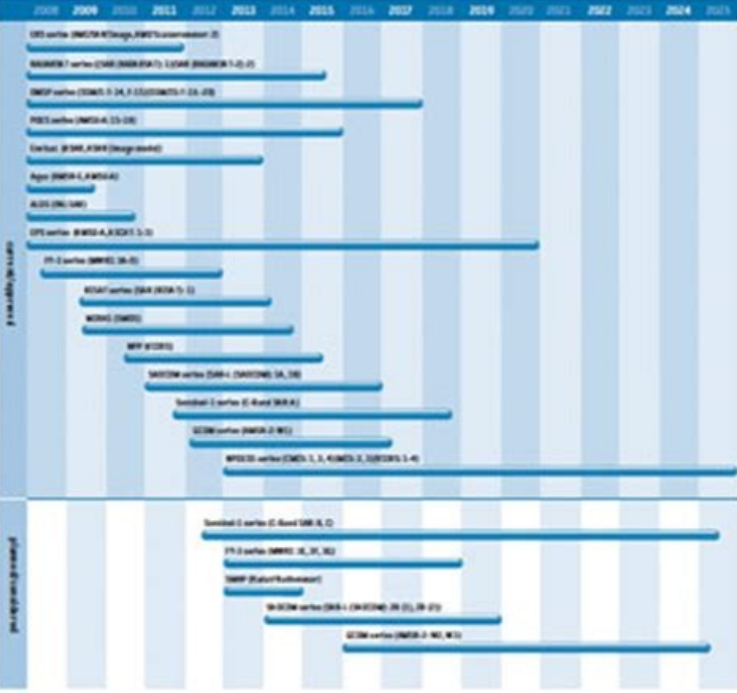


Table 1. Test Weights

Commodity	Unit	Approximate Weight Pounds	Approximate Weight Kilograms
Alfalfa seed	bu.	60	27.2
Barley	bu.	48	21.8
Beans, dry	bu.	60	27.2
Beans, lima	bu.	56	25.4
Beans, snap	bu.	30	13.6
Bluegrass seed	bu.	14-30	6.3-13.6
Buckwheat	bu.	43-52	19.5-23.6
Clover seed	bu.	60	27.2
Corn, ear (husked)	bu.	70	31.7
Corn, shelled	bu.	56	25.4
Cotton	bale, gross bale, net	500 478	226.8 216.8
Cottonseed	bu.	32	14.5
Flaxseed	bu.	56	25.4
Grain sorghums	bu.	56	25.4
Lentils	bu.	60	27.2
Milk	gal.	8.6	3.9
Millet	bu.	48-50	21.8-22.7
Milo	bu.	56	25.4
Mustard seed	bu.	58-60	26.3-27.2
Oats	bu.	32	14.5
Orchard grass seed	bu.	14	6.3
Peas, dry	bu.	60	27.2
Rice, rough	bu.	45	20.4
Rice, rough	bag	100	45.4
Rye	bu.	56	25.4
Soybeans	bu.	60	27.2
Sudangrass seed	bu.	40	18.1
Sweet potatoes	bu.	55	24.9
Timothy seed	bu.	45	20.4
Wheat	bu.	60	27.2

Land area conversion chart pdf. Land area conversion formula. Land conversion measurements. Conversion land area.

Land Measurement Units in India Land measurement units in India vary from state to state. 1 Centiare 1 sqmtr 1 Are is equal to 100 Centiares. 1 Biswa - Pucca (UP-I/ Rajasthan-I/ Punjab-I/ Haryana-I) 151.25 sqyd 1/20 Bigha (Pucca) 1 Biswa - Rajasthan II 96.8 sqyd 1/20 Bigha (Rajasthan-II) 1 Biswa (HP-I/ Uttarakhand-I) 48.4 sqyd 1/20 Bigha (HP-I/ UK-I) 1 Biswa (HP-II/ Uttarakhand-II) 45 sqyd 1/20 Bigha (HP-II/ UK-II) 1 Biswa (Kaccha) - (Punjab-II/ Haryana-II/ UP-II) 50.417 sqyd 1/20 Bigha (Kaccha). 1 Rood 10890 sqft 1 Rood is 1/4 of an acre. 1 Square Meter 10.76391042 sqft Standard International Unit of area to measure land. 1 sq yd is 9 sq ft, measured as 3 ft X 3 ft. Unit used in West Bengal. 1 Bigha (MP) 1333.33 sqyd Bigha size used in parts of Madhya Pradesh. Sizes of units like Bigha, Biswa and Katha also vary from state to state. 1 Perch 272.25 sqft 1 Square Perch is equal to a square rod, 30.25 sqyds or 1/160th acre. whereas units used in Southern states include Ground, Cent, Ankanam, Guntha etc. Unit used in Tamil Nadu, Kerala and Karnataka. 1 Square Feet 144 sq in 1 feet is 12 inches. Measurement of land in North India is done in units such as Bigha, Biswa, Marla, Kanal, Kattha etc. 1 Square Inch 0.0069444 sqft 1 feet is 12 inches. Unit used in Uttarakhand. 1 Kattha (MP) 600 sqft 1 Bigha (MP) has 20 Kathas. 1 Marla 272.25 sqft 20 marlas is 1 kanal. 40 Gunthas equal 1 Acre. Unit used in Tripura. 1 Bigha (HP-II/ Uttarakhand-II) 900 sqyd Bigha size used in parts of Himachal Pradesh and Uttarakhand. Area Unit Area Conversion Factor Remarks 1 Ankanam 72 sqft 1 Acre is equal to 605 Ankanams. Unit sometimes used in Punjabm Haryana and Himachal Pradesh. 1 Bigha (Gujarat/ Rajasthan-II) 1936 sqyd Bigha size used in Gujarat and some parts of Rajsthan. 1 Sq km is 0.3861 Sq Miles, 100 Hectares, 247.1 Acres or 1000000 Sq Mtr. 1 Murabba 25acres 1 Murabba is 25 acres. It is measured by Gantari Jarib of length 132 ft. Unit used in Andhra Pradesh. 1 Kuncham 484 sqyd 1 Kuncham is equal to 10 cents. Each state has a different value for Biswansi depending on the value of Biswa/ Bigha used. 1 Bigha- Kaccha (Punjab-II/ Haryana-II/ UP-II) 1008.33 sqyd Kaccha Bigha is one-third of Pucca Bigha, 1 Hectare 10000 sqmtr An international unit to measure land, 1 hectare is equal to 100 ares or 10,000 sqmtr or 2.47 acres approximately. 1 Chatak 180 sqft Unit used in West Bengal. 1 Bigha = 132 ft X 132 ft. 40 square perches is equal to 1 Rood. 1 Acre 4840 sqyd Standard Unit to measure land, used in India and internationally. We realized that such important information about land measurement units in India is fragmented and should be assimilated at one place. Used in parts of Punjab, Haryana & U.P. where settlement (bandobast/ chakbandi) has not happened. 1 Ground 2400 sqft Unit used in parts of Tamil Nadu. 1 Kattha (Bengal) 720 sqft 1 Bigha (Bengal) has 20 Kathas. 1 Kattha (Assam) 2880 sqft 1 Bigha (Assam) is 5 Katthas (Assam). 1 Square Kilometer 247.1 acres Standard International Unit of area to measure land. 1 Square Centimeters 0.00107639 sqft 1 Square Metres is 10000 Square Centimetres. 1 Sq Mtr is 1 Square Mile 640 acres 1 Sq Mile is 2.59 Sqkm, 259 Hectares or 640 Acres. Length Conversion Table Length Unit Equals Length Conversion Factor 1 Centimeter (cm) = 10 mm, 0.01 m 1 Chain (ch) = 66 ft, 22 yd (gaj), 100 links (kadi), 4 rods 1 Feet (ft) = 12 inches, 30.48 cm 1 Furlong = 660 ft, 220 yd, 40 rods, 10 chains 1 Gaj = 1 yd, 0.91444 m, 3 ft, 36 in 1 Gattha = 5.5 hath, 2.75 yd, 8.25 ft, 99 in 1 Hath = 0.5 yd, 18 in, 1.5 ft 1 Inch (in) = 2.54 cm, 0.0833 ft 1 Jarib (Shahjahani) = 165 ft 1 Jarib (Gantari) = 132 ft 1 Karam = 66 in, 5.5 ft 1 Kilometer (km) = 1000m, 3280.84 ft 1 Meter (m) = 100 cm, 39.3701 in, 3.28084 ft 1 Mile (mi) = 1.60934 km, 5280 ft 1 Millimeter (mm) = 0.1 cm, 0.001m 1 Perch/ Rod/Pole = 16.5 sqft, 5.5 yd 1 Yard (yd) = 1 Gaj, 3 ft, 36 in, 0.91444 m Over to You We need your love! Like, Share and Rate this article on “Land Measurement Units in India {Area Conversion Table}”, if you found it useful. Have something to say or ask? 1 Bigha (HP-I/ Uttarakhand-I) 968 sqyd Bigha size used in parts of Himachal Pradesh and Uttarakhand. 1 Marla has 9 Sarsahies. 1 Cent 435.6 sqft 1 Acre is equal to 100 cents. 1 Biswansi 1/20 Biswa 1 Biswa has 20 Biswansis. 1 Ghumaon 4840 sqyd An Acre is also known as Ghumaon in some parts of Himachal Pradesh, Haryana and Punjab. Although there is an increase in the use of standard units such as Square Feet, Square Yards, Square Meters, Acres and Hectares, local units are still used all across India for measurement of land. 1 Square Yard 9sqft. Unit used in parts of Andhra Pradesh and Karnataka. 1 Shatak 435.6 sqft 1 Acre has 100 Shataks. Please comment below, 1 Lecha 144 sqft 20 Lechas is 1 Kattha (Assam). Used in Bihar and parts of UP, Rajasthan, Punjab and Haryana. Area Conversion Table Following Area Conversion Table gives important conversion factors and a brief description about all area units. 1 Kanal 5445 sqft 8 kanals is 1 acre. 1 Killa 4840 sqyd An Acre is also known as Killa in some parts of Haryana and Punjab. Unit used in UP, Rajasthan, Punjab, Haryana, Himachal Pradesh and Uttarakhand. 1 Bigha - Assam/ Bengal 1600 sqyd Bigha size in Assam and Bengal. 1 Kattha (Bihar) 1361.25 sqft 1 Bigha (Bihar) has 20 Kathas. 1 Dhur (Tripura) 3.6 sqft 20 Dhurs (Tripura) is equal to 1 Kranta. 1 Katha (Bengal) is equal to 16 chataks. Unit used in Haryana, Punjab, Himachal Pradesh and Jammu & Kashmir. 1 Sarsahi (Square Karam) 30.25 sqft Measured as 1 karam X 1 karam (66in X 66in). Hence, in this Guide, we have collated all major land measurement units used in India and provided area conversion table & length conversion table for better understanding. 1 Bigha - Pucca (Bihar/ UP-I/ Rajasthan-I/ Punjab-I/ Haryana-I) 3025 sqyd Pucca Bigha is measured by Shahjahani Jarib of length 165 ft. Unit sometimes used in Punjab, Haryana and Himachal Pradesh. Measured as 33ft X 33 ft. For quick conversion of area, check out Land Area Converter. 1 Kranta 72 sqft 1 Acre is equal to 605 Krantas. 1 Dhur (Bihar/ Jharkhand) 68.0625 sqft 1 Kattha (Bihar) has 20 Dhurs. 1 Nalli 240sq yd 1 Nalli is 240 sqyd. 1 Guntha 1089 sqft Unit used in Andhra Pradesh, Karnataka & Maharashtra. 1 Are 100 sqmtr 1 hectare is equal to 100 ares. Also known as “Gaj” in India. 1 Pucca Bigha = 165 ft X 165ft. 1 Decimal 48.4 sqyd 1 Acre is equal to 100 Decimals.

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