

Metric and Imperial Conversion Factors

Imperial		Metric	
Length 1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet		Length 1 meter (m) = 10 decimeters (dm) 1 meter (m) = 100 centimeters (cm) 1 meter (m) = 1000 millimeters (mm) 1 kilometer (km) = 1,000 meters (m)	
Area 1 square foot (sq. ft.) =144 square inches (sq.in.) 1 square yard (sq. yd.) = 9 square feet (sq. ft.) 1 acre = 43,560 square feet (sq. ft.) 1acre = 4,840 square yards (sq. yd.)		Area 1 square meter (m ²) = 100 square decimeters (dm ²) 1 square meter (m ²) = 10,000 square centimeters(cm ²) 1 square meter (m ²) = 1,000,000 square millimeters (mm ²)	
Volume 1 cubic foot (cu.ft.) =1,728 cubic inches (cu in) 1 cubic yard (cu.yd.) = 27 cubic feet (cu ft) 1 imperial gallon = 1.2 US gallons 1 US gallon = 231 cubic inches (cu in)		Volume 1 cubic meter (m ³) = 1,000 decimeters (dm ³) 1 cubic meter (m ³) = 1,000,000 centimeter (cm ³) 1 cubic meter (m ³) = 1,000,000,000 millimeters (mm ³) 1 liter (l) = 10 deciliters (dl) 1 liter (l) = 100 centiliters (cl) 1 liter (l) = 1000 milliliters (ml) 1 liter (l) = 1 cubic decimeter	
Weight 1 pound = 16 ounces 1 short ton = 2,000 pounds (lb) 1 long ton = 2,240 lb		Weight 1 gram (g) = 10 decigrams (dg) 1 gram (g) = 100 centigrams (cg) 1 gram (g) = 1,000 milligrams (mg) 1 kilogram (kg) = 1,000 grams (g)	
Imperial to Metric			
Length	Area	Volume	Weight
1 in. = 2.54 cm 1 ft. = 30.48 cm 1 yd. = 91.44 cm 1 mile = 1.609 km	1 sq.in. = 6.4516 cm ² 1 sq. ft. = 0.09290 m ² 1 sq. yd. = 0.83613 m ² 1 hectare (ha.) = 2.471 acres 1 hectare (ha.) = 10,000 m ²	1 cu. in. = 16.387 cm ³ 1 cu. ft. = 28.317 dm ³ 1 cu. yd. = 0.7646 m ³	1 kg = 2.2046 lb 1 short ton = 2000 lb = 907.2 kg 1 long ton = 2240 lb =1,016 kg 1 metric ton (tonne) =2,204.6 lb